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SHELF Nº ZADAMS





REVERIES,

OR.

MEMOIRS

CONCERNING

The ART of WAR

By MAURICE Count de SAXE, Marshal-General of the Armies of France.

To which is annexed,

His Treatife concerning LEGIONS; O R.

A Plan for new-modelling the French Armies.

Illustrated with Copper-plates.

Together with

LETTERS on various military Subjects, wrote by the Marshal to several eminent Persons; and,

The Author's Reflections on the Propagation of the HUMAN SPECIES.

Translated from the FRENCH.

To which is prefixed an account of the Life of the Author.

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MDCCLIX.

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A short account of the Life of Marshal Count de Saxe.

Aurice Count de Saxe, Marshal-General of the armies of the Most Christian King, and Duke-elect of Courland and Semigallia, was born at Dresden the 19th of October 1696. He was natural fon of Frederic-Augustus II. Elector of Saxony, King of Poland, and Grand Duke of Lithuania, by Aurora Countess Konigsmarc, youngest sister of Philip Count Konigsmarc, who was descended of an illustrious family in Sweden, and who fell a facrissice for an alledged intrigue with the Princess of Zell.

Count Saxe discovered an early genius for warlike exercises, neglecting every study but that of war. He cultivated no foreign language but French, as if he had foreseen that France would one day become his country, in which he would rise to the highest mi-

litary honours.

He accompanied the King his father in all his Polish campaigns, and began to ferve in the allied army in the Netherlands, in 1708, when he was no more than twelve years old, and gave pregnant proofs of an enterprising genius. He afterwards served in the war against the Swedes in Pomerania, and was made Colonel of a regiment of horse.

He entered into the Imperial fervice in 1717, and made feveral campaigns in Hungary against the Turks, in which he behaved with the greatest bravery, and thereby attracted the regard of Pr. Eugene of Savoy, the most illustrious captain of his time.

In 1720 Count Saxe visited the court of France, where he obtained a brevet of Camp-Marshal from the Duke of Orleans, then regent of that kingdom. Two years after, he purchased the colonelcy of the regiment of Spar, and gradually rose in military honours, from the rank of Colonel to that of Marshal-General.

While the Count was residing in France, the states of Courland, foresceing that their duchy would one day be without a head, Duke Ferdinand, the last male of the samily of Ketler, being valetudinary, and likely to die without issue, were prevailed on, by foreign insluence, to chuse the Count to be their sovereign. The minute of election was signed by the states at Mittaw, the capital of Courland, on the 5th of July 1726. But this election having been vigorously opposed by the court of Russia, and also by the republic of Poland, upon both of which the duchy was dependent, Count Saxe could never make good his pretensions; so that, upon the death of Poland.

2 2

Duke Ferdinand in 1736, Count Biron, a gentleman of Danish extraction, in the fervice of Ruslia, was preferred before him.

When a war broke out in Germany, upon the death of the late King of Poland, our Count's father, he attended the Duke of Berwick, commander in chief of the French army fent into that

country, and behaved with unparallelled bravery.

When troubles broke out in the fame quarter, upon the death of the late Emperor Charles VI. Count Saxe was employed in the French army fent into the empire, to support the pretensions of the Elector of Bayaria; and had no inconfiderable hand in storming Prague: by means of which he acquired the confidence and

esteem of that unfortunate prince.

When an invasion of G. Britain was projected by the court of France, in the beginning of 1744, in favour of Charles-Edward, the pretender's eldeft fon, C. Saxe was appointed to command the French troops to be employed on that oceasion. Both the young pretender and the Count had come to Dunkirk, in order to proceed upon the intended expedition; but the design was frustrated by a

furious storm, and the vigilance of the British fleet.

France having, foon after that event, declared war against G. Britain, C. Saxe was appointed commander in chief of the French army in the Netherlands, and promoted to the rank of a Marshal of France. In this high station he had full room to display his great abilities. Success crowned all his enterprises; and every town he invested, was obliged to submit to his victorious arms. During the course of the war, he beat the allies in several battles, and made himself master of the whole Austrian Netherlands, with a good part of Dutch Brabant.

Such eminent fervices procured him an act of naturalization by the King of France, in April 1746; in January following, he was raifed to the rank of Marshal-General, an office which had been vacant for many years; and in January 1748, he was constituted Governor-General of the Netherlands, with a large revenue

annexed.

After the treaty of peace at Aix-la-Chapelle in 1748, M. Saxe, covered with glory, and loaded with the King's bounties, retired to Chambord in France, where he spent his time in various employments and amusements. But being seized with a sever on the 21st of November 1750, he died on the 30th of that month. His corpfe was interred on the 8th of February following, with great funeral pomp, in the church of St Thomas at Strasburg. All France lamented his death. The King was at the charge of his funeral, and expressed the greatest concern, for the loss of a man who had raifed the glory of his arms to the highest pitch. By his will, which is dated at Paris March 1. 1748, he directed

that "his body should be buried in lime, if that could be done,

"that, in a short time, nothing more of him might remain in the world, but his memory among his friends." This direction, however, was not complied with: for his corpse was imbalmed, and put into a leaden coffin, which was inclosed in another of copper, and this covered with one of wood, bound about with iron. His heart was put into a silver-gilt box, and his intrails into another cossin.

M. Saxe was bred a Protestant, of the Lutheran persuasion, under the eye of the Countess his mother; and no worldly consideration could ever induce him to change his religion. He had unhappily, like his royal father, early engaged in a series of amorous adventures, and several natural children were the fruits of his vagrant amours. Though he had been prevailed on by his mother, to marry Victoria Countess of Lobin, a lady of distinguished birth and beauty, by whom he had a child or two, who died in their infancy; yet a coldness having arisen between them, the marriage was dissolved, on account of adultery committed by the Count, with a design to procure a divorce; and he never afterwards married.

The Marshal was a man of a middling stature, but of a robust constitution, and extraordinary strength. To an aspect noble, sweet, and martial, he joined the interior qualities of a most excellent heart. Assable, and affected with the missortunes of others, he was great and generous, even more than his fortune would permit. On his deathbed he was very penitent for his lewd scenes, and reviewed the errors of his life with extreme remorse.

His reveries, and the treatise concerning the legion, with the other pieces contained in this volume, are the only works of his that have been published. He left another piece behind him in manuscript, intitled, Observations to render a state the most flourishing in the world; which has not yet been made public.

As the London translation of the Reveries was found to be faulty in many respects, and the treatise concerning the legion, with some of the Marshal's letters, were altogether omitted; these reasons induced the publisher to give a new edition, in which the translation has been considerably amended. And as the price of the book is now reduced one half, being no more than 7 s. neatly bound, it is hoped that the gentlemen of the army, and others, will readily approve the undertaking, by encouraging the works of this illustrious captain.

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PREFACE.

AR is a science so involved in darkness, and attended with so much imperfection, that no certain rules of conduct can be given concerning it: custom and prejudice, the natural consequence

of ignorance, are its fole foundation.

All other sciences are sounded upon fixed principles and rules*, but war alone is destitute of these. The celebrated captains who have wrote upon the subject, are so far from giving us any thing sundamental in the art, that their desects may be easily discovered; and their works are so intricate and indigested, that no mean parts, and no inconsiderable degree of attention and labour, are requisite to understand them: nor is it possible to form any judgment upon historians who have wrote of war, when every thing they have advanced is the product of imagination and caprice.

The mechanical part of war is infipid, and tedious in description; of which the great captains, who have wrote of it, being sensible, they have studied to be rather agreeable, than instructive, in their writings upon the subject. The few books which treat of war as an art, and that lay down any principles, are in no great esteem; nor can they be allowed their

^{*} War has certain rules and fixed methods of practice; but they are such only as relate to the detail, or inferior branches, and do not extend to the sublime; which last, it must be understood, the author means in this place.

due merit, till time has subverted the present fystem: but those which treat of it in the historical way, meet with a different reception; they are fought after by all the curious, and are carefully preferved in libraries. To the prevalence of this taste it has been owing, that we have even now but a confused idea of the

discipline of the Greeks and Romans.

Gustavus Adolphus invented a method which was followed by his disciples, and by means of which great things were effected. But fince his time we have gradually declined; because we have blindly adopted maxims without any examination of the principles on which they were founded: from whence proceeds that confusion of customs, where every one has assumed the privilege of adding or diminishing at pleasure. - Nevertheless these customs still remain in repute, on account of their illustrious But in reading Montecuculli, who was contemporary with Gustavus, and is the only general who entered into any thing of the detail, it is very evident, that we have already departed more from his system, than he did from that of the Romans: from whence it appears, that our present practice is nothing more than a passive compliance with received customs, the grounds of which we are absolute strangers to.

The Chevalier Folard was the first who had courage enough to pass the bounds of popular prejudice. I greatly esteem his noble bravery.

Nothing

Nothing is fo difgraceful as that flavish adherence to custom, which prevails at present; and which, as I have already observed, proceeds only from ignorance. But the Chevalier goes too far; he advances an opinion, which he pronounces infallible, without reflecting, that the success of it must depend upon an infinite number of circumstances, which human prudence cannot possibly foresee. He supposes men to be the same at all times, and always brave; without confidering that the bravery of troops is a variable and uncertain quality of mind; and that the chief excellence of a general confists in his address to establish it in his troops, by an artful choice of dispositions and situations; and by those peculiar strokes of genius, adapted to occasion, which characterife the great captains. haps indeed he purposely reserved to himself his reflections on this subject, which is of very great extent; or perhaps it altogether escaped him. There is, however, no part of the mi-litary fystem which deserves so much study and attention.

The same troops may be most certainly defeated, even in intrenchments, which, if they were to begin the attack, would be victorious. This is an instance which few have accounted for in any reasonable manner; and it can only be ascribed to the weakness and imperfections incident to human nature; there alone it is seated. No person has as yet treated of

this matter, which yet is of the utmost importance in war, and demands our particular regard and attention; for otherwise we leave all events to the decision of Fortune, who is sometimes very fickle in the disposal of her favours. I shall only make use of one example, amongst a thousand others, to enforce my opinion con-

cerning this frailty of the human heart.

After the French infantry, at the battle of Friedlingen, had repulfed the Imperialists with unparallelled fortitude; had totally routed them, and purfued them through a wood into a plain, which lay on the other fide; some one, upon the appearance of two fquadrons, (which might be French for any thing that was known to the contrary); cried out, We are cut off! upon which these victorious troops instantly abandoned their triumphs; took to flight in the most dreadful confusion, without being either attacked, or purfued by a fingle person; repassed the wood with the utmost precipitation, and never once halted till they had got beyond the field of battle. Marshal Villars, together with the generals of the army, took all possible pains to rally them, but to no purpose; and yet the victory had not only been gained, but rendered at the same time so complete, that no part of the enemy attempted to make the least appearance afterwards. Nevertheless we find, that those men who in one moment had discovered such amazing intrepidity, were the same whose fears, the

very next, betrayed them to a shameful slight. It was from Marshal Villars himself I had the fact, and who related it to me at Vaux-villars, when he was shewing me the plans of his battles. And whoever has curiosity enough to search for more examples of this nature, may meet with a great many in the history of all nations. This however is, at present, sufficient to prove the instability of the human heart, and how little we ought, consistently with prudence, to depend upon it. — But before I enlarge too much upon the sublime parts of war, it will be necessary to treat of the minute, by which I mean, the principles of the art.

Though those who have confined their studies to the detail, are usually accounted perfons of shallow capacities; yet it is a branch which appears to me very effential, as it constitutes the foundation of a science; and as it is impossible to erect any edifice, or to esta-blish any system, without being first acquainted with the principles that must necessarily support it. This observation the following comparison will serve to illustrate. A person who has a taste for architecture, and knows how to defign, will draw the plan of a palace with great correctness; but if he is obliged to execute it, and is, at the same time, ignorant of the method of shaping his materials, and laying his foundation, the whole fabric must presently fall to ruin. b 2 The

The fame is the case with a general, who is unacquainted with the first principles of his profession, and the manner of forming his troops, which are qualifications indispensably necessary in whatever relates to the business of war. The remarkable victories which the Romans constantly gained, with fmall armies, over multitudes of barbarians, can be attributed to nothing but the excellent composition of their troops. Not that I would from hence infer, that a man of enterprife and genius will not be able to make fome figure, even at the head of an army of Tartars; as it is much easier to take men as they are, than to make them what they ought to be; and as no task is more arduous, than that of reconciling the different opinions, prejudices, and passions, to which they are subject.

I shall begin with the method of raising troops, of clothing, subfishing, exercising, and forming them for action. To fay that the present system of practice is totally useless and abfurd, will appear a very presumptuous affertion, at a time when the power of custom is grown fo absolute, that, to depart from it, is become a crime; it is, however, a more excufable one, than to introduce innovations. I declare, therefore, that my fole view and intention in what follows, is to expose the er-

rors into which we are fallen.

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MEMOIRS

CONCERNING THE

ART of WAR.

B O O K I. Of the Detail.

CHAPTER I.

Of raising troops.
 Of clothing them.
 Of saying them.
 Of paying them.
 Of forming them for action.

ARTICLE I.

Of raising troops.

ROOPS are raifed by voluntary compact, with or without writing, fometimes by compulsion, but most frequently by artifice.

When men are raised by compact, it is unjust and barbarous not to observe the compact:

A

as they were free at the time of contracting, it is contrary to all laws, both divine and human, not to perform the promifes made to them. Nor is the fervice benefited by such unjustifiable proceedings: for the consequence will be, that the men will desert; and they cannot justly be punished for it, because the faith pledged to them has been violated: so that, in such case, though military discipline requires that severe examples be made, yet such examples will appear odious and horrible. At the beginning of a campaign, however, there are many soldiers to be found whose time of service is expired; and the captains, desirous to keep their companies complete, detain them by force: and this gives rise to the grievance I have been speaking of.

The method of making levies by artifice, is altogether scandalous and unwarrantable; for instance, secretly conveying money into a man's pocket, and then challenging him for a soldier.—That of raising troops by compulsion, is still more so: it occasions a general depopulation, from which no person can be exempted, but by sorce of money; and it is

at bottom a most unjustifiable measure.

Would it not be much better to establish a law, obliging men of all conditions in life, to serve their king and country for the space of sive years? Such a law could not reasonably be objected against, as it is both natural and reasonable for people to be employed in the defence of that state of which they constitute a

part. In chusing them between the years of twenty and thirty, no manner of inconvenience can possibly be the result; for those are years devoted, as it were, to libertinisin, in which youth go in quest of adventures and rambles, and which afford but little comfort to parents. --- An expedient of this kind could not come under the denomination of a public defolation; because every man, at the expiration of his five years service, would be discharged: it would also create an inexhaustible fund of excellent recruits, and fuch as would not be apt to defert .- In course of time, every one would regard it as an honour rather than a duty, to perform his task. But, to produce this effect upon a people, it is necessary that no fort of distinction should be admitted, no rank or degree whatfoever excluded, and the nobles and rich rendered, in a principal manner, fubservient to it. This would effectually prevent all murmur and repining; for those who had ferved their time, would look upon fuch as discovered any reluctance or distatisfaction at it, with contempt; by which means, the grievance would vanish insensibly, and every man at length esteem it an honour to ferve his term: the poor would be encouraged by the example of the rich; and the rich could not with decency complain, feeing themselves on a footing with the nobles.

War is an honourable profession. How many princes have voluntarily condescended to carry a musket? and how many officers have I feen ferve in the ranks after a reduction, rather than submit to live in a state of indolence and inactivity? Nothing therefore but effeminacy can make a law of this kind appear hard

or oppressive.

If we take a furvey of all nations at this day, what a spectacle do they exhibit to us? We behold fome men rich, indolent, and voluptuous, whose happiness is produced by a multitude of others, who are employed in flattering their passions; and who subsist only, by preparing for them a constant succession of new pleasures. The assemblage of these distinct classes of men, oppressors and oppressed, forms what is called fociety; the refuse of which is collected, to compose the foldiery. But fuch measures, and fuch men, are far different from those by means of which the Romans conquered the universe.

Nevertheless, all things have a good as well as a bad fide: and though it is certain, that nothing contributes fo much to the goodness of an army, as obliging the provinces to recruit it, yet one great inconvenience refults from it; that of the officers neglecting, and taking no care of the foldiers. I have almost always observed, that a large half, and sometimes three fourths of the Imperial armies, were composed of recruits; which can proceed from nothing but the little regard paid by the officers to the health and preservation of their men: if they contract any disorders, they are fuffered

fuffered to perish for want of proper assistance, because it is attended with some expence.

The remedy to this evil is very fimple, being nothing more than to oblige the officers to pay the recruits. I would have the provinces still furnish them; but the recruiting cash should be put into the stock-purse, and the officers, as I before observed, subsist them; which would be attended with a double advantage, in being the means to preserve both men and money. For suppose an army wanted 20,000 to complete it, and the captains were obliged to pay 50 livres for every man, there would consequently be a saving of a million, and the men, at the same time, be much better taken

care of, than they are at present.

This method of raising troops is very well calculated for all countries, like France, which are well peopled, and able to furnish their own armies, without introducing foreigners. There are some states indeed which are forced to recruit amongst other nations; but might not these establish a national militia upon this plan? and are not those states who are under the necessity of having a great part of their army composed of foreigners, obliged, in a much greater degree, to keep sacred their agreement or capitulation with those strangers, than with their own subjects, as being a means to facilitate the raising of them?

ARTICLE II.

Of clothing Troops.

OUR dress is not only very expensive, but most inconvenient; the soldier is neither shod nor clad. The love of appearance prevails over the regard due to health, which is one of the grand points demanding our attention.

In the field, the hair is a filthy ornament for a foldier; and after once the rainy season is fet in, his head can hardly be ever dry. His cloaths don't cover his body; and in regard to his feet, they, with stockings and shoes, rot in a manner together, because he has not wherewithal to change them; and though he has, it can be of little fignification, because, presently afterwards, he must be in the fame condition again. Thus, as may be naturally supposed, the poor soldier is soon fent to the hospital.—White gaiters are only fit for a review, and spoil in washing; they are also very inconvenient, hurtful, of no real use, and very expensive. The hat soon loses its agreeable shape; is not strong enough to refift the rains and hard usage of a campaign, but prefently wears out; and as foon as a man, overpowered perhaps by fatigue, lies down, it falls off his head; and if he fleep with his head uncovered, and exposed to dews, or bad weather, he is the day following in a fever.

I would have a foldier wear his hair short,

and be furnished with a small wig, either grey or black, made of Spanish lamb-skin, which he should put on in bad weather. This wig will resemble the natural head of hair so well, as to render it almost impossible to distinguish the difference; will sit extremely well, when properly made; cost but about twenty pence, and last during his whole life: it will be also very warm; prevent colds and fluxes; and give quite a good air.—Instead of the hat, I would recommend an helmet, made after the Roman model; which will be no heavier; be far from inconvenient; protect the head against the stroke of a sabre; and appear extremely ornamental.

In regard to his cloathing, he should have a waistcoat, somewhat larger than common, with a small one under it, in the nature of a short doublet *; and a Turkish cloak †, with a hood to it. These cloaks cover a man completely, and do not contain above two ells and a half of cloth; consequently are both light and cheap: the head and neck will be effectually secured from rain and wind; and the body, when laid down, kept dry; because they are not made to fit tight, and when wet, are dried again the first moment of fair weather.

of the leg.

^{*} Almost all the German cavalry are clothed in this manner; and certainly the skirts of a coat are of little or no use, as there are cloaks, which sufficiently answer the purpose of keeping out the cold and rain.

[†] These cloaks ought not to extend in length below the calf

It is far otherwise with a coat; for when wet, the foldier not only feels it to the skin, but is reduced to the difagreeable necessity of drying it upon his back. It is therefore no longer furprifing, to see so many diseases in an army. Those who have the strongest constitutions, perhaps escape them the longest, but they must at length submit to a calamity which is unavoidable. If to the distresses already enumerated, we add the duties even those in health are obliged to perform for their fick comrades; for the dead, wounded, and deferted; one ought not to wonder that the battalions are reduced at the end of a campaign to 100 men. Thus we perceive how far the smallest things may influence and affect those of the greatest consequence. But to return to the cloaks: As the quantity of cloth required is finall, and they are light, they can be rolled up, and fastened along the knapsack upon the back; in which position they will be very far from having a bad effect, at the same time that the men under arms, and in fair weather, will find themselves easy, and unincumbered by them; they will also last for three or four years. Thus the dress may be reduced to a fmaller expence, rendered more healthy, and its appearance, to the eye, rather improved than diminished.

In regard to the legs and feet, I could wish the foldiers were to have shoes made of thin leather, with low heels; which will fit extremely well, and make them involuntarily afsume fume a good grace in marching; because low heels oblige men to turn out their toes, to stretch their joints, and consequently draw in their shoulders. These shoes must be worn upon the naked foot, and greased with tallow, or fat. This precaution will doubtless appear strange to the petit-maitres: but we know from experience, that it was made use of by all the French veterans; because it not only entirely preserved their feet from galling on a march, but the grease prevented the wet, in a great measure, from penetrating; and the leather from growing hard, and hurting them.

The Germans, who make their infantry wear woollen stockings, have always great numbers crippled, from blifters, ulcers, and all forts of inflammatory humours in their legs and feet, as wool is venomous to the skin; befides, they foon break at the toes, and, remaining wet upon the feet, presently rot away. To these pumps I would add thin leathern gaiters, fitted also to the naked leg, and supported upon it by the buttons of the breeches; which are, for that purpose, to come below the knee, and to be made of leather. Thus one avoids the use of garters; which is by no means a circumstance of the least consequence; for the foldiers at present wear no less than three pair, one over another; the first, 'to tie up their stockings; the second, to tighten their breeches knees; and the third, to keep up their gaiters; all which must certainly debilitate their nerves, and render them less patient B

of fatigue. To these must be added sandals, or galoches *, with wooden foles of a-bout the thickness of an inch; which would prevent the men's feet from getting wet in marching through dirty roads, or the dew, and be of particular fervice to them, when on duty: but, during the dry feafon of the year, and for exercises and reviews, they are to be laid afide.

On the 1st of November every year, they should be also furnished with a pair of woollen stockings, large enough to wear over their shoes and gaiters; which ought, moreover, to be foled with a flender leather; and the fole to be brought a little over the fides and toes of the feet, that they may be occasionally worn within the galoches.

ARTICLE III.

Of subsisting Troops.

THE practice of troops messing together contributes much to good order, economy, and health; debauchery and gaming are thereby prevented, and the foldier is, at the fame time, very well maintained. This inftitution, however, is not without its inconveniencies; because a man harasses himself after a march in fearch of wood, water, &c.; is tempted to maraude; is perpetually dirty, and ill dreffed; fpoils his cloaths by the carriage

^{*} A great many of the French foldiers make these galoches themselves in the winter-time, out of their old shoes. from

and

from one camp to another of all the necessary utenfils for his mess; and likewise impairs his health by the extraordinary fatigues which unavoidably attend it .- Yet these inconveniencies are not without a remedy: for the troops being, according to my disposition, divided into centuries, a sutler, provided with four carts drawn each by two oxen, should be appointed to every one, and furnished with a pot large enough to hold a sufficient quantity of soup for the whole century, of which every man should receive his proportion in a wooden porringer, together with fome boiled meat at noon, and roasted in the evening; and officers should attend, to see that they be not imposed upon, or have cause to complain.--The profit allowed to be made by these sutlers, should arise from the sale of liquors, cheese, tobacco, and the skins of the cattle which they kill; and which they are also to maintain with the herbage and provisions that will be always found in the neighbourhood of the army.

To carry this into execution, may at first appear a matter of some difficulty; but very little application will be necessary to render it both practicable, and of general use. Soldiers, when they were to go on parties, might carry as much roasted meat as would serve them for one or two days, without any manner of incumbrance. The quantity of wood, water, and kettles, which is now required to make soup for an hundred men, is more than would be sufficient for a thousand in the way I propose;

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main

and the foup, at the fame time, be composed of much better ingredients: befides, the foldiers would thus avoid all unwholesome things which produce diforders, fuch as hog's flesh, unripe fruit, &c.; and the officers would only have occasion to attend their meals, at which one at least should be always present, to take care that they had justice done them. On forced marches, or at fuch times when the baggage could not be brought up, the cattle upon the spot should be distributed amongst the troops, and wooden spits made to roast their flesh; which is an expedient accompanied with no imbarraffment whatfoever, and lasts only for a few days. But let us compare our method with this, and we shall soon find which is the most preferable. It is in use amongst the Turks, who are by that means at all times well nourished, insomuch that their bodies, after an engagement, are very distinguishable from those of the Germans, which are pale and meagre. There is also another advantage refulting from it in certain cases; that of managing the soldier's purse, by furnishing him with his pay, and at the same time felling him his provisions; for instance, when contributions are to be raifed in countries abounding in cattle, like Poland and Germany, that the inhabitants may be able to furnish what is required, one half must be taken in provisions, the other in money, and the former fold to the troops. Thus the foldier's pay makes a perpetual circulation, and there will likewife remain an overplus of both money and provifions.——It is moreover of great fervice in the confumption of fuch magazines as you have been obliged to make; for by fending your troops to fubfift upon them, the loss to the state will be much diminished, and no umbrage, at the same time, given to the men.

Bread should never be given to soldiers in the field, but they should be accustomed to biscuit; because it is a composition that will keep without spoiling five years or more in the magazines. It is very wholesome, and a soldier can carry a fufficient quantity of it for feven or eight days without any inconvenience. We need only apply to such officers as have ferved amongst the Venetians, to be informed of the general use, as well as convenience of it. The Muscovite kind, called foukari, is the best, because it does not crumble: it is made in a square form, of the size of a small filbert; and, as it takes up but little room, will not require fuch numbers of waggons to convey it from place to place as are necessary for bread.—The purveyors indeed very industriously propagate the opinion, that bread is better for a soldier: but that is altogether false, and proceeds only from a selfish regard to their own interest; for they do not more than half-bake it, and blend all forts of unwholesome ingredients; which, with the quantity of water contained in it, renders the weight and fize double. Add to this, their train of bakers, fervants, waggons, and horfes, upon

all which they make a large profit: they are also a great incumbrance to an army; must be always furnished with quarters, mills, and detachments to guard them. In short, it is inconceivable how much a general is perplexed with the frauds they commit, the imbarrassments they create, the diseases they occasion by the badness of their bread, and the extraordinary trouble they give to the troops. The erecting of ovens is a circumstance which, in general, discovers so much of your intentions to the enemy, that it is needless to say any more about it. If I undertook to prove every thing which I advance by facts, I should not be able to dismiss this subject so soon; but, upon the whole, I am convinced, that a great many misfortunes have proceeded only from this evil, which have been falsely ascribed to other causes.

It would be proper sometimes to with-hold even biscuit from the men, and give them corn in its stead, which, after having first bruised, and made into paste, they must learn to bake upon iron plates. Marshal Turenne, in his memoirs, makes some mention of this custom; and I have heard it observed by other great commanders, that they sometimes resused their troops bread, even when they had abundance of it, in order to inure and reconcile them to the want of it. I have made campaigns of eighteen months length with troops that were, during the whole time, without it, and yet never discovered the least dissatisfaction. I

have also made several others with such as were accustomed to it, and who were so far from being able to submit to the want of it, that the intermission of it for only a day was attended with the greatest inconveniencies; a circumstance that rendered every enterprise in which

expedition was required, impracticable.

In regard to flesh-meat, there is hardly a possibility of being reduced to a want of it; for cattle can keep up with an army very well, and cost nothing in conveyance; and if we grant that an ox weighs 500 pounds, and that every man is to be allowed but half a pound, one ox per day will maintain a thousand men, and fifty will consequently be sufficient for 50,000: suppose then that a campaign lasts 200 days, the number of oxen required will amount to no more than 10,000, which will follow the army, and find pasture sufficient to suppose them in all places. They should be affembled in different herds, or repositories, and successively advanced as occasion may require.

I cannot omit taking notice here of a custom established amongst the Romans, by means of which they prevented the diseases and mortality that armies are subject to from the change of climates; and to which also a part of that amazing success which attended them ought to be attributed. The German armies lost above a third upon their arrival in Italy and Hungary. In the year 1718, we entered the

camp of Belgrade * with 55,000 men: it ftands upon an eminence; the air is wholefome; the water good, and we had plenty of all necessaries: nevertheless, on the day of battle, which was the 18th of August, we could muster only 22,000 under arms; the rest being either dead, or incapable of acting.

— I could produce many instances of this kind, which have happened amongst other nations, and can be only imputed to the change of climate. The use of vinegar was the grand fecret by which the Romans preferved their armies; for as foon as that was wanting amongst them, they became as much subject to diseases as we are at present. This is a fact that few perhaps have attended to, but which is notwithstanding of very great importance to all commanders, who have a regard for their troops, and any ambition to conquer their enemies.—In regard to the manner of using it, the Romans distributed it by order amongst the men, every one receiving a sufficient quantity to serve him for several days, and pouring a few drops of it into the water which he drank. To trace the cause of so salutary an effect, is what I leave to the adepts in physic, contenting myself with having related a simple fact, the reality of which is unquestionable.

^{*} The Marshal served this campaign as a voluntier.

ARTICLE IV.

Of paying Troops.

WIthout entering into a detail of different pay, I shall only say in general, that it ought to be such as will afford a competency. A handful of men well subsisted and disciplined, is superior to a multitude of such as are neglected in those important particulars; for it is the goodness, and not the number of troops,

on which victory depends.

OEconomy is commendable, when confined within certain limits; but when it exceeds those, it degenerates into fordid parsimony. Unless your appointments for the officers are fuch as will support them genteelly, you must dispose of them, either to men of fortune, who ferve only for their pleasure, or to indigent wretches, who are destitute of spirit. The former of these I make but small account of, because they are, for the most part, impatient of fatigue, and repugnant to all subordination; they are addicted to perpetual irregularities, and no more than mere libertines: the latter are fo depressed, that it would be unreasonable to suppose them capable of any thing great or noble: for as preferment is not rendered an object of fufficient importance to influence their passions, their ambition is naturally soon gratified; and they are full as happy to remain in their old stations, as to rife to higher at any expence.

Hope

Hope encourages men to endure and attempt every thing. In depriving them of that, or removing it to too great a distance from them, you divest them of their very soul: for which reason, all degrees of advancement ought to be accompanied with a proportionable increase of honours and advantages; and every officer should not only regard the command of a regiment as a post of the highest dignity, but, moreover, be affured, that he himself, by good behaviour and perseverance in his duty, will at length attain the fame. When these things have been happily effected, the troops may be kept under the severest discipline. But, to speak the truth, the gentry, who are what we call foldiers of fortune, make the only good officers; and their appointments ought furely to produce an income fufficient to maintain them in a handsome manner; because a man who devotes himself to the service, should look upon it as an entrance into fome order or other: he should neither have, nor even acknowledge any other home, than that of his regiment; and, at the same time, whatsoever station he may be in, should esteem himself honoured by it.

According to the fashion of the present times, a man of quality thinks himself very ill used, if the court does not present him with a regiment at the age of eighteen or twenty. This extravagant partiality destroys all manner of emulation amongst the officers of inferior birth; who thereby become, in a great measure, ex-

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cluded from any chance of fucceeding to the like preferments, and confequently to the only posts of importance; the glory attending which would atone for the toils and sufferings of a tedious life, to which they chearfully submit, in hopes of acquiring reputation, and a future

recompense.

Nevertheless, I would not be understood to argue, that princes, and other persons of illustrious birth, should be denied all marks of preference and distinction; but only that some regard should be had to their abilities; and that the privileges of birth should be supported by those of distinguished merit. If therefore they are properly qualified, they might be allowed to purchase regiments of such of the gentry as had been rendered incapable of fervice by age or infirmities; which permission would at the fame time prove a recompense for both: but they are by no means to be intitled to the liberty of felling again to another; because that of purchasing at unseasonable years is an indulgence sufficient: their regiments therefore, as often as they became vacant, ought to be afterwards disposed of in recompensing long fervice and conspicuous merit,

ARTICLE V.

Of exercising Troops.

THE manual exercise is, without doubt, a branch of military discipline necessary to render a soldier steady and advoit under arms;

but it is by no means of fufficient importance in itself to engage all our attention: so far from it, that it even deferves the least, exclusive of that part, which it is dangerous to make use of in the face of an enemy; fuch as, carrying the firelock over the left arm, and firing by platoons, which, as will hereafter be explained, has occasioned many a shameful defeat.

—After this exception, the principal part of all discipline depends upon the legs, and not the arms. The personal abilities which are required in the performance of all manœuvres, and likewise in engagements, are totally confined to them; and whoever is of a different opinion, is a dupe to ignorance, and a novice in the profession of arms.——The question, Whether war ought to be styled a trade, or a fcience? is very properly thus decided by the Chevalier Folard: It is a trade for the ignorant, and a science for men of genius.

After having thus treated of the manner of raising, clothing, and subsisting troops, it becomes necessary that I should proceed to that

of forming them for action.

ARTICLE VI.

Of forming troops for action.

Propose to treat of this subject, which is a very copious one, in a manner so new, that I shall probably expose myself to ridicule; but in order to render myself somewhat less obnoxious to it, I shall examine the present method

of practice, concerning the forming of troops for action; which is fo far from being confined within a small compass, that it is capable of furnishing matter enough for a large volume.

I shall begin with the *march*; which lays me under the necessity of first advancing what will appear very extravagant to the ignorant: it is, that notwithstanding almost every military man frequently makes use of the word tastic, and takes it for granted, that it means the art of drawing up an army in order of battle; yet not one can properly say, what the ancients understood by it. It is every where a custom amongst troops to beat a *march*, without knowing the original or true use of it; and it is universally believed, that the sound is intended for nothing more than a warlike ornament.

Yet fure we ought to entertain a better opinion of the Greeks and Romans, who either are, or ought to be our masters; for it is abfurd to imagine, that martial founds were first invented by them, for no other purpose than to confound their senses.

But to return to the *march*: According to the present practice, it is accompanied with a great deal of noise, confusion, and fatigue, which serve no good end. The sole remedy for this appears to be a secret, lest for me to disclose. As every man is suffered to consult his own ease and inclination, some march slow, and others fast: but what is to be expected

from

from troops that cannot be brought to keep one certain, regular pace, either quick or flow, as the commanding officer shall think proper, or the exigency of affairs require; and that an officer is obliged to be posted at every turning, to hasten the rear, which is perpetually loitering behind? A battalion moving off its ground, not improperly conveys the idea of a machine, constructed upon no principle, which is ready to fall in pieces every moment, and which cannot be kept in motion without infinite difficulty.

If, on a march, the front is ordered to quicken its pace, the rear must unavoidably lose ground, before it can perceive it; to regain which, it sets up a run; the front of the succeeding corps will naturally do the same, which presently throws the whole into disorder. Thus it becomes impossible to march a body of troops with expedition, without forsaking all

manner of order and regularity.

The way to obviate these inconveniencies, and many others of much greater consequence, which proceed from the same cause, is, however, very simple, because it is dictated by nature: it is nothing more than to march in ** cadence, in which alone consists the whole mystery, and which answers to the military pace of the Romans. It was to preserve this, that martial sounds were first invented, and drums introduced; and in this sense only is to be

^{*} This cadence, or equal measure, preserved in marching, is the same which is now in use amongst the Prussian troops. understood

understood the word tactic, although hitherto misapplied and unattended to. By means of this, you will be always able to regulate your pace at pleasure; your rear can never lag behind, and the whole will step with the same foot; your wheelings will be performed with celerity and grace; your mens legs will never mix together; you will not be obliged to halt, perhaps, in the middle of every wheel to recover the step; nor will the men be fatigued in any degree equal to what they are at present. No-thing is more common, than to see a number of persons dance together during a whole night, even with pleasure; but deprive them of music, and the most indefatigable amongst them will not be able to bear it for two hours only. This fufficiently proves, that founds have a fecret power over us, difpofing our organs to bodily exercises, and, at the same time, deluding, as it were, the toil of them.--If any one, thinking to ridicule what I have advanced, asks me what particular air I would recommend to make men march; I will readily answer, without being moved by his raillery, that all airs, in common or triple time, will produce fuch an effect; but only in a greater or less degree, according to the taste in which they are feverally fet; that nothing more is required, than to try them upon the drum, accompanied by the fife, and to chuse such as are best adapted to the nature and compass of those instruments.—Perhaps it may be objected, that there are many men whose

ears are not to be affected by founds. But this is a falfity; for the movement is fo natural, that it can hardly be even avoided. I have frequently taken notice, that, in beating to arms, the foldiers have fallen into their ranks in cadence, without being fenfible of it, as it were; nature and inflinct carrying them involuntarily; and without it, it is impossible to perform any evolution in close order, which I

shall prove in its proper place.

If what I have been faying is only confidered in a superficial manner, the cadence may not appear to be of fuch great importance; but to be able to increase or diminish the rapidity of a march, during an engagement, is an advantage which may be of infinite consequence. The military pace of the Romans was no other than this, with which they marched twentyfour miles, equal to eight of our leagues, in five hours. Let us try the experiment upon a body of our infantry, and fee whether they will be able to perform as much in the same fpace of time. It must be allowed indeed, that marching composed the principal part of their discipline; nevertheless, one may from hence form a judgment of the pains they took in exercifing their troops, as well as of the importance of the cadence.—It will be no difficulty to prove, that it is impossible to keep the ranks close, or to make a vigorous charge upon an enemy, without it. What a prodigy is this! and yet I don't believe a fingle person has

has paid any regard or attention to it for these

three or four ages past.

It now becomes necessary to examine a little our present method of forming troops for action. Those who understand it the best, divide a battalion into fixteen parts, which are distinguished by different appellations, according to the peculiar customs of places. A company of grenadiers is posted upon one flank, and a picquet upon the other: it is drawn up four deep *; and that its front may be rendered as extensive as possible, it marches to the attack in a line. The battalions which form the whole line of battle, are close to each other, the infantry being all together in one body, and the cavalry in another; a method contradictory to common prudence, and of which we shall speak more at large in another place. In advancing towards the enemy, they are compelled, by the nature of their disposition, to move very flow: the majors are calling out, Close! on which they press inwards, and crouding too much upon their centre, it insensibly breaks; and becomes eight deep, while the flanks remain only four: an instance which every person who has been in an engagement will acknowledge the truth of. The general feeing this diforder, and being afraid to have his flanks exposed, by the intervals which have confequently been made between

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^{*} It is the custom of the English army, to draw up their battalions three deep; but we are to suppose, that the Marshal alludes in this place to the French disposition.

the battalions, is obliged to halt; which, in the face of an enemy, is very dangerous; but as they also, from similar measures, are probably in as much confusion, the mischief is not so great as it would be otherwise. Nevertheless, a person ought, at all events, to persist in advancing, and never make a halt, to remedy such disorders; because, if the enemy takes advantage of that opportunity to fall upon

him, he must inevitably be undone.

When the two armies arrive within a certain distance from each other, they both begin to fire, and continue their approaches, till they come within about fifty or fixty paces; where, as is usually the case, either the one or other takes to flight; and this is what is called a charge. It is inconfistent, indeed, with the nature of their present bad order, that they should be able to make a better; because I look upon it as an imposlibility, without the use of the cadence. But let two battalions, which are to engage each other, march up with straight ranks, and without doubling or breaking, and fay which of them will gain the victory; the one that gives its fire in advancing, or the other that referves it. Men of any experience will, with great reason, give it in favour of the latter: for, to add to the consternation into which the former must be thrown, in feeing their enemy advancing upon them through the smoke, with his fire referved, they will be either obliged to halt, or, at least, to march very flow, till they have loaded

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loaded again; during which time, they are exposed to a dreadful havock, if he enlarges his pace, and falls upon them before they are

ready again.

If the last war had continued some time longer, the close fight would certainly have become the common method of engaging; for the infignificancy of finall arms began to be discovered, which make more noise than they do execution; and which must always occasion the defeat of those who depend too much upon them. If, therefore, the firings had been laid afide, it is highly probable, the present method likewise of forming three or four deep, would have foon shared the same fate: for what fervice could reasonably be expected from a body of men, rendered flow and unwieldy by their extent of front, against an opposite one, who were able to march with more rapidity, and to perform every move-ment with more ease? But, in order to render this more intelligible, the following explanation will not be unnecessary.

Let us suppose two battalions, each composed of 600 men, drawn up according to the plan, No. A represents one formed after the prefent method, B one after mine, and is moreover eight deep, whose front is neverthe-less equal to the one four deep; accompanied at the same time with the advantage of being able still to enlarge it; which it is impossible for the other to do without breaking: I shall always outflank the other, by adding a pace or

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two occasionally to my intervals; shall remain eight deep against four; have no disorders or confusion to apprehend; shall be able to march as quick again; and having no obstacle of sufficient force to oppose me, shall make way through their ranks in an instant.——If they open, in order to attack the flanks of my divisions, the intervals between them are fo fmall, and the pikes transversed in such a manner, that they will be inevitably broken, and thrown into confusion; and by giving their fire, they will expose themselves to immediate destruction, having no further means of re-

tarding my fury.

This method of forming a battalion corresponds exactly with that of the Romans, and is evidently the best. Let us therefore acknowledge them for our masters, and adopt their measures. Though they had no gunpowder, yet they invented machines, which, if they made less noise than ours, did as much execution. The effects of gunpowder in engagements are become less dreadful, and fewer lives are lost by it, than is generally imagined. I have feen whole volleys fired, without even killing four men; and shall appeal to the experience of all mankind, if any fingle difcharge was ever fo violent, as to disable an enemy from advancing afterwards, to take ample revenge, by pouring in his fire, and at the fame inftant rushing in with fixed bayonets. It is by this method only, that numbers are to be destroyed, and victories obtained.

At the battle of Castiglione, M. de Reventlau, who commanded the Imperial army, had drawn up his infantry on a plain, with orders to reserve their fire till the French approached within twenty paces; expecting, by a general discharge made at that distance, to defeat them. The French, after having, with some difficulty, reached the top of a hill, which feparated them from the Imperialists, drew up opposite to them, with orders not to fire at all: but as M. de Vendome judged it imprudent to make the attack, till he had first posfeffed himself of a farm which was situated upon his right, the two armies stood looking at each other for some time. At length, the orders to engage were given. The Imperialists, in obedience to their instructions, suffered the French to approach within about twenty or twenty-five paces; at which distance they presented their arms, and fired with all possible coolness and precaution: notwithflanding which, before the sinoke was difpersed, they were broken to pieces; great numbers of them were destroyed upon the fpot, and the rest put to slight.

At the battle of Belgrade, I saw two battalions cut to pieces in an inflant, of which the following is a relation. Being furrounded by a thick fog, which rendered it impossible for us to discern any thing, a strong blast of wind suddenly arose, and dispersed it; when we immediately saw a battalion of Lorrain, and another of Neuperg upon a hill, called the bat-

tery, separated from the rest of our army. Prince Eugene at the same time discovering a party of horse in motion upon the side of the mountain, asked me if I could distinguish what they were: I answered, they were thirty or forty Turks; then replies he, those two battalions are undone: at which time I could perceive no appearance of their being attacked, not being able to fee what was on the other fide of the mountain; but galloping up at full speed, I no sooner arrived in the rear of Neuperg's colours, than I faw the two battalions present, and give a general fire upon a large body of Turks at the distance of about thirty paces; instantaneously after which, the Turks rushed forwards through the smoke, without allowing them a moment's time to fly, and with their fabres cut the whole to pieces upon the fpot. The only persons who escaped, were M. de Neuperg, who happened luckily to be on horseback; an ensign, with his colours, who clung to my horse's mane, and incumbered me not a little, besides two or three private men. At this instant came up Prince Eugene, almost quite alone, being attended only by his body-guard; but the Turks, of their own accord, retired. Here the Prince received a shot through his sleeve. Upon the arrival afterwards of some cavalry and infantry, M. Neuperg defired a detachment to fecure the cloathing; upon which fentries were immediately posted at the four angles of the ground, occupied by the dead bodies of the two battalions; and

and their cloaths, hats, shoes, &c. collected in heaps together; during which time, I had curiofity enough to count the number of Turks, which might be destroyed by the general discharge of the two battalions, and found it amounted only to thirty-two; a circumstance, which has by no means increased my

regard for the firings *.

It was an established maxim with M. de Greder, a man of reputation, and who has, for a long time, commanded my regiment of foot in France, to make his men carry their firelocks shouldered in an engagement; and in order to be still more master of their fire, he did not even fuffer them to make ready their matches +: thus he marched against the enemy, and the moment they gave their fire, he threw himfelf, fword-in-hand, at the head of the colours, and crying out, Follow me! rushed at once upon them. By this method he defeated the Frise guards at the battle of Flerus, and was also successful on all other occafions.

What I have been advancing, appears to me

† This expression alludes to the match-locks which were formerly in use, and signifies the fixing of the match in its proper

place to give fire to the musket.

^{*} The quickness with which the Prussians load, is an advantage in one respect, as it engages a soldier's attention, and allows him no time for reflection in marching up against his enemy: nevertheless it is an error to imagine, that the five victories which they obtained in the last war, ought to be ascribed altogether to their firing, because it was remarked, that, in most of those actions, they lost more men from the fire of the enemy, than the enemy did from theirs.

fupported by reason, as well as experience, and proves that our large battalions are vastly defective in their composition; as the only fervice which they are capable of doing in action, is by their firing: their construction is therefore adapted to that alone; and when that is rendered ineffectual, they are no longer of any consequence; conscious of which, their own fafety becomes naturally the next object of their attention. Thus it is, that every thing centers, from its very nature, in its point of equilibrium. The original of this method of forming our battalions, was probably taken from reviews; for, drawn up in such extenfive order, they make a more pleasing appearance; to which being familiarized by custom, it infenfibly became adopted in action.

Yet, notwithstanding the weakness and abfurdity of fuch a disposition, there are many who pretend to vindicate it by reason; alledging, that in thus extending their front, they will be able to enlarge their fire: and, in compliance with this opinion, I have known fome draw up their battalions even three deep; but they have been made fensible of their error, by severe experience; otherwise, I really imagine, they would foon have formed them two deep, and not improbably, in ranks entire: for it has been hitherto an invariable maxim in all engagements, to endeavour to outflank the enemy, by exceeding him in front.—But before I enlarge too much on this subject, it is necessary that I should de**fcribe**

scribe my method of forming regiments and legions; after which, I shall treat of the cavalry; and endeavour to establish a certain order and disposition, which, although it may be subject to some change from the variety of situations, ought never to be totally departed from.

CHAP. II.

Of the Legion.

HE Romans conquered all nations by the effects of their discipline; they studied the art of war with unwearied attention, and judiciously relinquished their own customs, whenever experience threw better in their way. In this respect, they differed from their enemies, the Gauls, whom they perpetually defeated during a series of ages, without making them sensible of the badness of their practice, or provoking them to retrieve their losses, by any alteration in it.

The legion was a body so formidable, as to be capable of undertaking the most arduous enterprises. Its composition, says Vegetius, was undoubtedly the effect of divine inspiration alone; a reflection corresponding with the opinion which I have, for a long time, entertained concerning its importance, and which has rendered me more sensible of the defects

of our own practice.

According

According then to my fystem, the infantry is to be formed into legions, every one confifting of four regiments, and every regiment of four centuries; each century having a halfcentury of light-armed foot, and a half-century of horse.

When centuries of infantry are drawn up in feparate bodies, I shall give them the name of battalions; and the cavalry, that of fquadrons; in order to render things familiar to our ideas, by conforming as much as possible to our own

customs.

The centuries, both of foot and horse, are to be composed of ten companies *; every company confisting of fitteen men, as will be explained more at large in the following details. - But as it is necessary in all governments to have regard to economy in the support of their armies, it therefore becomes expedient to form them upon + three different establishments, understood among us by the following appellations; the establishment in peace; the preparatory establishment for war; and the complete establishment in war.

In times of profound peace, when the first establishment takes place, the companies are only to consist of one serjeant, one corporal, and five veteran foldiers; when preparations

+ See plate 1. figure 3 84

^{*} Although a company of horse is an unusual term in the English service; yet it is hoped the military reader will be kind enough to excuse this introduction of it, as it is only admitted in this place, to prevent obscurity and confusion in others.

are making for a war that is expected, although not declared, an addition of five men must be made; and of ten, when they are to be completed to the full establishment, which makes an augmentation of 1600 per legion.

The five veterans per company will constitute a fund-for the occasional supply of officers, and non-commissioned officers, by which means the inconvenience of making them of such as have never been in service, will be a-

voided.

New-raifed regiments I am altogether averse to; for unless they are grafted upon old ones, and commanded by good officers, eight or ten campaigns generally destroy them.

The cavalry are to be subject to no manner of change or reduction: for veterans, both in regard to men and horses, are the best; and recruits of either, absolutely useless. Notwithstanding therefore they are an expence to a nation, their consequence renders it indispensable.

In regard to the infantry, provided the principal officers are men of fense and experience, the management of the subordinate part of it is discretional.

As I am going to treat of war, I shall accordingly suppose my troops completed to the third establishment; so that a century of foot will consist of the following numbers.

The detail of a century.

Centurion —	I
Lieutenant — —	1
Second lieutenants — —	4
Enfign — —	I
Serjeant-major — —	I
Fourier — —	I
Captain at arms — —	I
Fifer —	I
Drummers — —	3
Ten companies, composed	
each of 17 men, including	170
the ferjeant and corporal	

Total 184

The two half-centuries of horse and lightarmed foot, are not to exceed ten per company, including the ferjeants and corporals, because they are to recruit themselves out of the regiments to which they respectively belong. ----Any diminution of the heavy-armed forces, which compose the main body of the infantry, even though it should be so great, by losses in time of war, as to reduce them to the establishment in peace, will be of no bad consequence, because the different divisions of the legion will still remain equal and entire: A circumstance of infinite use and advantage in service, as you will never be obliged to vary your manœuvre; for it is inconceivable how prejudicial are all alterations of that kind, infomuch that.

that, after a long peace, I have feen troops belonging to the fame government, when affembled together, differ to fuch a degree in their manner of performing, that one would have naturally taken them for a collection made from feveral diffinct nations.

It is necessary therefore to establish one certain principle of action, and never to depart from it; a principle which ought to be rendered familiar to every military person, as being the foundation of his profession: but it is impossible to retain it, unless you always preserve the same number of officers, and non-commissioned officers; because, without it, your manœuvres will naturally be subject to perpetual variation.

A regiment is to confift of four centu-	
ries, amounting to — The half-centuries of light-armed foot, officers and non-commissioned officers	736
included — — — The half-centuries of horse	70
Staff-officers.	876
r Colonel — —	
I Lieutenant-colonel I Major I Adjutant I Drum-major I Surgeon	6

Total regiment 882
The

The state of a legion.

Four regiments —	3528
Legionary general — —	I
Legionary major — —	1
Engineers — —	2
Quartermaster — —	I
Treasurer — —	ĭ
Chaplain — —	I
Surgeon-major — —	I
Kettle-drummer — — —	- I
Standard-bearer — —	I
Waggon-master — — —	I
Provost — —	I
Marshal-man	I
Executioner — — —	I
Carpenters — — —	10
Workmen of various kinds —	10
Servants for ten carriages — —	20

Total legion 3582

N. B. 2 twelve-pounders. 2 pontons.

Every century is to be furnished with a piece of ordnance of my own invention, called an amusette *, which carries above 4000 paces with extreme velocity; the field-pieces used by the Germans and Swedes will scarcely carry a fourth part of that distance: this is also much more true; is drawn and worked with ease

by two or three men; carries a half-pound ball, and is made with a convenience to hold a thousand; all which must render it of great service, on numberless occasions, in war.

The artillery and waggons are to be drawn by oxen, and the latter loaded with all kinds of inftruments and utenfils necessary for building forts; as cordage, cranes, pulleys, windlasses, saws, hatchets, shovels, mattocks, &c. which must be all marked with the number of their respective legion, to prevent their being lost,

or mixed together.

The corps being thus disposed, the private foldiers should have a piece of brass fixed on each shoulder, with the number of the legion and regiment upon it, to which they belong, that they may, at all times, be easily distinguished.——I would also have their right hands marked in the fame manner, with the kind of composition made use of by Indians, fo as never to be effaced; which would effectually put a stop to desertion, and tend to in-numerable good consequences. This custom, however strange, may nevertheless be easily introduced, provided the fovereign will only affemble his colonels, and represent to them, that it will be of great importance in supporting good order, as well as preventing defer-tion; that it cannot be confidered in any other light, than as a mark of honour, which manifests their engagement in the service of their country; and that they will do him a pleasure, in first complying with it, and setting the example

ample to the rest of his army.—Any address of this nature must infallibly have the desired effect; in consequence of which, all the subordinate officers, ambitious to oblige their prince, and sensible of the utility of such an institution, will gladly imitate their colonels; after which, the soldiers will be so far from objecting to it, that it will become a matter of choice to them. It was a practice amongst the Romans, but with this difference, that they marked with a hot iron.

The half-centuries of horse are to be composed of men taken out of the regiments to which they respectively belong, leaving the choice of them to their centurion; with this exception, that he must give preference in such election to the old soldiers. Cavalry thus collected and formed, will never abandon their infantry; but, on the contrary, will inspire them with uncommon resolution, and be of admirable service to them, either in pursuing the enemy, or covering their retreat; of which I shall speak more at large in another place.

The light-armed foot are, in like manner, to be supplied by their respective regiments, the centurions electing the youngest, and most active. Their arms must consist of nothing more than a very light fowling-piece, and a bayonet with a handle to it, which will, at the same time, answer the purpose of a sword. This fowling-piece is to be made so as to open and receive the charge at the breech, in order to avoid the inconvenience and loss of time in

ramming

ramming it down; and all the accoutrements must be as light as possible. Their officers are also to be chosen out of the regiment, after the same manner as the private men, without paying any regard to seniority.—Thus formed, they must be exercised with a continuance; must practise jumping and running, but, above all, siring at a mark at three hundred paces distance: and rewards are to be appointed for those who excel in all these different exercises, in order to excite an emulation amongst them.

A body of infantry composed according to this plan, and thoroughly inured to labour, can march every where with the cavalry, and, I am consident, will be capable of doing very

confiderable fervice.

I am far from approving of grenadiers: for as they usually compose the flower of our army, and are employed on every important occasion, a brisk war exhausts them to such a degree, that they are no longer able to surnish non-commissioned officers, on whom the excellence of the infantry totally depends. I would therefore substitute the veterans in their room; who ought, moreover, to have a larger pay than the other soldiers. The light-armed forces are to be employed on all services requiring expedition and activity, and the veterans only on such as were serious and of moment; which will tend to the reciprocal interest of both establishments. The command of the former is to be always given to a lieutenant,

tenant, the particular appointment of whom must depend upon the colonel; but that of the latter, being regarded as the post of honour, is to be determined altogether by seniority. According to the present system, it is impossible to prevent the officers from succeeding to grenadier-companies by seniority, without affronting them to a violent degree; even those, which is frequently the case, who are in themselves insufficient, and whose persons are naturally too insure to support the fatigues incident to those stations.——I have also seen the lives of many brave men thrown away on trisses, and that particularly at sieges. It is so common to employ the grenadiers on every occasion which presents itself, that they are sometimes detached on the most frivolous fervices, and but too often facrificed without any manner of necessity.

The heavy-armed forces are to have good firelocks, five feet in length, whose bores must be wide enough to hold an ounce-ball, and made to receive the charge at the breech, in the same manner as those of the light-armed forces: they will carry above twelve hundred paces: to these must be also added bayonets,

two feet and a half in length.

It is needless to be under any apprehensions of overloading the infantry with arms, because their weight rather serves to poise and make them steady than otherwise. Those of the Roman soldiers weighed above sixty pounds; and it was death to throw away any part of them

them in action; which, so far from being attended with any bad consequence, had a quite contrary effect, as it prevented their entertaining any thoughts of flying; and, for that rea-

fon, was one of their capital maxims.

The men are likewise to be furnished with bucklers of leather, prepared in vinegar; which will be attended with very confiderable advantages: for they are not only of use to cover the arms, but whenever the troops are to engage standing, they may form a kind of parapet with them in an instant, by passing them from hand to hand along the front; two of them, the one upon the other, being musket-proof. My opinion, in regard to this piece of armour, is supported by that of Montecuculli, who fays, that it is absolutely necessary for the

infantry.

These bayonets being made with handles to fix within the barrel of the firelock, are much preferable to the others; because they put it into a commanding officer's power, to preserve his fire as long as he thinks proper; which is a circumstance of the utmost importance. It is inconfistent for one body of troops to make use of two different ways of engaging at once. They must of necessity, therefore, either proceed at once to close fight, or depend altogether upon their firings; and whenever the former method is to be put in execution, the latter must be laid aside; to which, on actual service, men can hardly be reconciled; nothing, in general, being more difficult, than F 2

to prevent their firing, when they approach near their enemy; of which what follows is one instance.

Charles XII. King of Sweden, intending to introduce amongst his troops the method of engaging fword-in-hand, had frequently mentioned his defign to his officers, and it was likewise made known to his whole army. Accordingly, at the battle of - against the Muscovites, he hasted to the head of his regiment of infantry, the moment it begun, and made a fine harangue; immediately after which he difmounted, and, posting himself in the front of the colours, led them on to the charge; but as foon as they came within about thirty paces of the enemy, the whole gave fire, notwithstanding his presence, as well as his positive orders to the contrary; and although he routed the enemy, and gained a complete victory, yet he was fo piqued, that he passed through the ranks, remounted his horse, and rode off without speaking a single word.

But to return to the legion:——The battalions are at first to be drawn up four deep, the two front ranks being armed with firelocks only, and the two rear with half-pikes, and firelocks slung over their shoulders. The half-pike is a slender weapon, thirteen feet in length, exclusive of the iron head, which is to be three-square, eighteen inches long, and two broad; the staff must be of deal, hollowed, and covered with varnished parchment; which will

will be very light, and not being so limber as one that is solid, will be likewise much more useful in action.—My opinion, in regard to the importance of this instrument, is supported by the general concurrence of men of reflection and experience; and the only reasons to be assigned for the disuse of it, are such as have also occasioned the abolition of many other excellent customs of the ancients, by which I mean neglect and indolence. The half-pikes were found unserviceable in some affairs that happened in Italy, where the situation was rough and impracticable for them; from whence they came to be totally laid asside; and nothing since has been thought of, but

to increase the quantity of fire-arms.

Although I have been exclaiming against firing in general, yet, in certain fituations, it is both advantageous and necessary; such as, in inclosures and rough grounds, and also against cavalry: but the method of performing it ought to be fimple and unconstrained. The present practice is of little or no effect; for the men are so distracted by that attention which they are obliged to give to the word of command, that it is impossible for them to fire with any certainty. How is it to be expected, that, after they have presented their arms, they can, in fuch a position, retain an object in their eye, till they receive the word to fire? The most minute accident serves to discompose them; and having once lost the critical moment, their fire afterwards is, in a great measure, thrown

away. The strictest nicety and exactness is required in levelling; insomuch, that any movement of the firelock, when presented, altho' even imperceptible, is sufficient to throw the ball considerably out of its true direction; to add to which, their being kept in a constrained attitude, will naturally make them unsteady. These, and other inconveniencies, totally prevent that execution which might be expected from small arms. But as this is a subject which demands a particular article, I shall therefore treat of it at large hereafter, and return to the

forming of my battalions.

In charging, the two rear-ranks are to level their pikes; in which position they will extend from fix to feven feet before the front-rank: the front-ranks being sheltered in such a manner, will, I am confident, take a much furer aim, and fire with more coolness and resolution, than they would otherwise do; and the rear-ranks, as they are likewise covered by the front, will exercise their pikes with more intrepidity, and be capable of doing infinitely more fervice, than if they were armed only with firelocks: the fecond rank can fire very well, without obliging the front to kneel; by which means a very inconvenient and dangerous position is avoided: for all those who la. bour under any degree of fear, are naturally defirous to continue as long as possible in such an attitude; and after they have fired, do not rife up, in order to load again, with that brifkness which is necessary. But there is another more material

material objection to this method, which is, that it subjects you to the necessity of halting at every fire.—According to the disposition which I propose, the whole are under cover, one rank protected by another with a reciprocal considence. The front presents a forest of spears, whose appearance must be dreadful to your enemies, and encouraging to your own troops, who become inspired with fresh courage from a sensibility of their power.

The plans numbered 5, 6, 7, 8, 9, and 10, will explain my manner of forming the centuries. In forming regiments, the standards are to be posted in the centre of their respective centuries, because every century is to follow its own; and in forming the legion, the standards of all the regiments are to be governed by the grand or legionary standard; which method will enable them, on every oc-

casion, to form with ease and celerity.

As standards were at first designed only for such purposes, and to assist troops in rallying, nothing astonishes me more, than that men should be prevailed upon to deviate from so essential an institution. It is become universally the custom, to post all the standards belonging to a battalion in the centre of it, as if nothing less than numbers collected together could serve to render them sufficiently conspicuous. This absurd practice appears to me another proof of our ignorance: for the standards being appointed by the ancients, each to direct the motions of a separate body of troops; and these

these bodies being reduced, by the events of war, to fmall numbers, the whole, in confequence of their weakness, were at length formed into one body, and all the standards posted in the centre: in the course of years, they were completed to their first establishment; but the necessary removal of the standards to their former posts again, which ought to have taken place at the fame time, was omitted: from thence we blindly have adopted the fame custom, which is a circumstance that has hitherto escaped the observation of any other perfon; and it is highly probable, that our battalions likewife owe their present unwieldy form to some such original. If this be allowed, the disciplinarians of the present age have certainly proceeded upon a principle founded upon extreme ignorance and error.

As there will be found above an hundred officers and non-commissioned officers per regiment, they are therefore to be always posted by files; one to every maniple or division, and two to every century. This disposition will enable them to prevent the regiments from disordering each other, and the divisions from mixing, which is a matter of no small moment in an engagement: it will moreover produce another good effect, in giving them an absolute command over the men: for whenever they attempt to take their firelocks from off their shoulders, in order to fire at an improper time, or without order, they can instantly see and hinder it; which they are by

no means able to do, when posted in the front and rear, according to the present practice.

As I have formed three different establishments, the first and lowest of which is to take place in peace only; the second, when a war is expected; and the third, after it is declared; at which time, the companies, as has before been explained, are to be completed to seventeen men, and consequently the centuries to 184, serjeants and corporals included; when these centuries therefore are reduced a third, or more, they are to be distinguished by the name of troops, and by that of battalions only when complete.

The half-centuries of light-armed foot, and of horse, must be always kept complete, because they recruit out of their respective regiments, and consequently ought never to be below their proper establishment; and this more especially, as it is not my intention to have them at all subject to detachments, but that they should always march in a body.

In the disposition for charging *, the lightarmed foot are to be dispersed along the front, at the distance of an hundred, or from one to two hundred paces, from the legion, and to begin firing when the enemy is about three hundred paces off; which they are to continue, without any word of command, till the enemy approaches within about fifty paces; at which distance, every commanding officer is to order a retreat, taking care to retire softly towards

* See plan 11. plate 3 figne 11.

his respective regiment, and in such manner as to be able to fall into the intervals of the battalions by tens; keeping up his fire likewise till he has joined them: by this time the legion must be advancing in charging order, having doubled its ranks, and formed eight deep, while the light-armed foot were skirmishing in front. The half-centuries of horse likewise, being divided and formed into two troops, are to be posted at the distance of thirty paces in

the rear of their respective regiments.

The whole moving forwards in this order, with a regular and brifk pace, must certainly make a formidable appearance, and greatly intimidate the enemy; for what can they do to oppose the shock? If they would attack the flanks of the centuries, they must necesfarily break their battalions before they can be able to do it; which is a very dangerous, if not an impracticable attempt, confidering that the intervals confift of no more than ten paces; those moreover filled by the light-armed foot, and rendered still more impenetrable by the transversed pikes of the rear-ranks. How is it to be supposed, that, being only four deep, and having been likewise already harassed by the light-armed infantry, they can possibly maintain their ground against troops, which are not only quite fresh, but formed eight deep, with a front at the same time equal to theirs; and which fall impetuously upon them, disordered in a manner already by that floating and unevenness of the ranks which is unavoidable

able in the movement of fo extensive a body? From hence therefore it appears highly pro-bable, that they must be defeated; and if they trust to flight, they will only expose themfelves to more certain destruction: for the moment they turn their backs, the light-armed foot, together with the horse posted in the rear, are to purfue, and will make dreadful havock amongst them. During the pursuit, the centuries are to stand fast, in order to receive their own troops again, if repulfed by the enemy, and to be able to renew the charge, in

case it should be necessary.

The peculiar advantages of this disposition being thus considered, I cannot avoid giving it the preference to all others, and of being best adapted for a day of battle. And although it may be imagined by fome, that the enemy's cavalry might disperse my light-armed troops, yet, in the execution, it will be found quite otherwise: for every regiment having but seventy of these irregulars, which will be scattered along its front, and in continual motion, the enemy will have no fleady or fit object to fire at: finding themselves able therefore to do but little, if any execution, and exposed at the fame time to a fevere fire, they must soon be obliged to retire. But as they will naturally endeavour to remedy this inconvenience, the only effectual method of doing it, will be for them likewise to establish a body of irregulars, trained up to engage mine, and formed upon my principle. Thus its goodness is in one in-G 2

stance demonstrated, by the enemy's being reduced to a necessity of adopting it. Yet it is reasonable to suppose, that they will first have suffered considerably, and have been repeatedly defeated, before they become sufficiently reconciled to this change in their manœuvre to put it in practice; and even then their troops will be but awkward and new to that kind of engagement, opposed against mine perfectly dexterous, and familiarized to it by long habit. Their retreat will moreover be attended with great difficulty and danger; for as the present disposition of their main body admits of no intervals, they will be obliged to move along the front of their respective regiments, in order to retire by the slanks.

ments, in order to retire by the flanks.

It will not be improper, before I finish this chapter, to give the following concise calculation of the fire of my light-armed troops.

Let us suppose them to begin firing at the distance of 300 paces, which is what they must be a suppose that their ordinary aversises and to contain the suppose that their ordinary aversises and to contain the suppose that their ordinary aversises and to contain the suppose that their ordinary aversises and to contain the suppose that their ordinary aversises and to contain the suppose that their ordinary aversises and to contain the suppose that their ordinary aversises and to contain the suppose that their ordinary aversises and to contain the suppose that their ordinary aversises and the suppose that the suppose that the suppose the suppose that the s

Let us suppose them to begin firing at the distance of 300 paces, which is what they must practise at their ordinary exercises, and to continue it, during the space of time necessary for the enemy to march that quantity of ground, which will be from fix to seven minutes at least: my irregulars will be able to fire fix times in a minute; however, I shall only say five; every one will therefore have fired thirty times, and consequently the complement belonging to every regiment, at least 2000, before the engagement can possibly commence on the side of the enemy. We are, moreover, to consider, that the troops employed on this service,

fervice, are fuch as have been inceffantly exercifed in firing at some very distant mark; which are not drawn up in any close order; and which fire at their own ease and discretion, without being obliged to wait for the word of command, or kept in that constrained attitude which is customary in the ranks, where the men croud one another, and prevent their taking a steady aim. I may therefore infift upon it, that a fingle fire from one of these irregulars perfected in his bufinefs, will in general do as much execution, as ten from any other; and if the enemy are drawn up in order of battle, their movement will be fo flow, that they must sustain above four or five thousand such fires from every regiment; before they will be able to begin the engagement.

I would not have any one imagine, that three hundred paces is too great a distance for these fusees; because their construction is such, that they will carry four hundred point blank; and above a thousand, if elevated to twenty,

or twenty-five degrees.

To these I add the fire of the machines which I call amusettes. These, as I have before observed, do not require above two or three soldiers both to draw and work them; which soldiers are to be furnished by the centuries to which they respectively belong, assisted by the captains-at-arms, who are appointed only for that service.—Before an engagement, these amusettes are to be advanced in front, along with the light-armed troops:

as they can be fired two hundred times in an hour with ease, and carry above three thoufand paces, they will be of great use to gall an
enemy, when forming after they have passed
any wood, defile, or village; when marching
in column, or drawing up in order of battle,
which last requires time. Every century is to
have but one; nevertheless, those of both lines
may be joined upon occasion, and the whole
collected upon any eminence, in which situation they must do prodigious execution. They
will carry further, and much more true, than
our cannon; and the captains-at-arms must be
taught by constant practice, to work them
with dexterity and judgment. The sixteen belonging to a legion planted together in an engagement, will be sufficient to silence any battery of the enemy's in an instant.

With regard to my pikes, if in rough, or mountainous places, they be found to be use-less, the soldiers have nothing more to do, than to lay them aside for the time, and to make use of their suspenses, which they always carry slung over their shoulders for such purposes. To say that the carriage of them will be too great an incumbrance, is a frivolous objection; for as they are now obliged to carry their tentpoles, nothing more is required, than to substitute these pikes in their room, by making the tents in such a manner, that, with a cord tied by the middle of them, they may answer the same end. Their appearance above the tents, so far from being displeasing to the eye,

will have a very good effect, and be rather ornamental in a camp, than otherwife. Their entire weight, including the iron-work, does not exceed five pounds; and being made hollow, they are not fo weak and limber as those formerly in use, which, at the same time, weighed near seventeen pounds, and were extremely incommodious.

Even numbers, and the square-root, constitute the principle on which the form and disposition of the several distinct bodies of my infantry depend, and from which one must never depart; as are, for instance, the sour maniples or divisions per century *; the sour centuries per regiment; and the sour regiments

per legion.

A body of troops formed according to this plan, must undoubtedly be capable of great things, especially if the legionary general be a man of parts and experience. For instance, if the commander in chief of an army wants to take possession of some post, to obstruct the enemy in their projects, or, in short, to execute any of those various enterprises which are frequently sound necessary in the course of a war, he has nothing more to do, than to detach some particular legion upon it; which, as it is furnished with every material that can be required to fortify itself, can soon be secured from any outward insult; and, in the space of sour or five days, might put itself in such a de-

^{*} See plan 7.

fensible state, as to be able to sustain a regular fiege, and to stop the progress of the enemy's whole army. How practicable this is, shall be demonstrated hereafter, when I come to

the subject of fortification.

This disposition of the infantry appears to me the more prudent, as it is just in all its parts; and the acquired reputation of any fingle legion, will both make an emulous impression upon the others, and at the same time discourage the enemy. Such a body will naturally regard their credit as the common cause, and be perpetually spurred on to glorious deeds, by a restless ambition to equal at least, if not excel that of any other. The exploits of a corps which has any fixed title, are not fo foon forgotten, as those of one which bears the name of its colonel only; because that is subject to be changed, and the remembrance of their former actions will then be apt to cease, together with that of their name. It is moreover natural for all men to be less interested about things which relate to others, than about those in which they themselves are personally concerned. Thus, by the same rule, it becomes much easier to inspire a corps which is diftinguished by a title peculiar to itself, with a fpirit of emulation, than another which is called after its colonel, who very probably may be disliked.—Many persons, not knowing why those regiments which bear the names of provinces in France, have always behaved fo particularly well, impute it altogether to their natural natural courage; which is far from being the real reason, as appears from what I have just been observing. Thus we see, that matters of the utmost importance depend sometimes on

trifles, which escape our notice.

These legions, moreover, form a kind of universal seminary of soldiers, where different nations are freely adopted, and their natural prejudices effectually removed; a circumstance of infinite use to a monarch, or a conqueror, who will thus always have a world to recruit in.—And those who imagine, that the Roman legions were totally composed of Roman citizens, are very much deceived; for they were a collection of all nations: but it was their composition, their discipline, and their method of fighting, which gave them the superiority over their enemies, and obtained their victories; neither were they vanquished in their turn, till these prudent measures became supplanted, and negligence and degeneracy were suffered to prevail in their stead.

C H A P. III.

1. Of cavalry. 2. Of armour. 3. Of arms and accourrements for man and horse. 4. Of the establishment of cavalry; together with their manner of forming, engaging, and marching. 5. Of foraging, green and dry. 6. Of tents, and the method of incamping. 7. Of detachments, or parties of light-armed cavalry.

ARTICLE I.

Of cavalry in general.

HE cavalry ought to be well appointed; to be mounted on horses inured to satigue; to be incumbered with as little baggage as possible; and above all, that leading mistake of making the horses fat should be avoided. The oftener likewise they see an enemy, the better; as it renders them familiar with danger, and capable of attempting any thing: but that immoderate love which we are apt to have for the horses, leaves us ignorant of their real power and importance.

I had a regiment of German horse in Poland, with which I marched in eighteen months above fifteen hundred leagues; and I can also affirm, that at the end of that time it

was fitter for fervice, than another whose horses were too full of flesh. Unless cavalry be able to endure fatigue in running and violent exercife, they are in reality good for nothing; but then they must be broke by degrees, and familiarized to it in length of time by custom; after which, galloping at full speed by squadrons, and a constant use of violent exercises, will both preserve them in better condition, and make them last much longer; it will moreover form the men, and give them a martial and becoming air. To exercise the horses only once every three years, and then but in a gentle manner, from an apprehension that violent fatigue and sweating may be prejudicial to them, is far from being sufficient: for I infift upon it, that unless they are accustomed to hard treatment, they will be more subject to diforders, and at the same time become incapable of service.

There must be two kinds of cavalry, distinguished by the different names of horse and dragoons: of the former of which, although much the best, the number must be but small, because they are attended with great expence: but their use and application, nevertheless, requires our particular attention. Forty squadrons of them are sufficient for an army of from 40 to 50,000 men. Their movements should be simple, necessary, and free from all tendency to lightness; the essential point being to teach them to engage in a firm body, and never to disperse. The mounting of grand H 2 guards

guards is the only duty which they are to do; for efcorts, detachments, and parties, are always to be composed of lighter troops. In general, they should be upon a similar footing with the heavy artillery, and never suffered to march but with the army.

The men are to be flender in person, and from five seet six to seven inches high: their horses to be strong and thick, and never under fifteen hands two inches high. Those of

the Germans are the best.

They are to be armed from head to foot, and the front-rank to have lances hung by a flender strap to the pummel of the saddle; swords also four feet long, with stiff three-fquare blades; carbines, but no pistols, as they will only increase the weight; stirrups; but, instead of saddles, the *bows only, with a pair of pannels stuffed, and covered with black sheep-skins, which are to serve by way of a case, and to come across the horse's chest.

In regard to dragoons, there must be at least twice as many as of horse: but their regiments are, nevertheless, to be composed of the same numbers. Their horses are not to be above fourteen hands high, nor under thirteen hands two inches. Their exercise must be full of spirit and velocity; and they are also to know perfectly well that of the infantry: their arms are to be susees, swords, and lances; which last, when they dismount, will serve instead

^{*} See plate 13.

of pikes. Their faddles and furniture are to be the fame with those of the horse: their persons must be small, and their height from five feet to five feet one inch; never exceeding two. They are to form by squadrons three deep, and to march in the same order as the horse.

When they dismount, their ranks are to be open, that they may be able to wheel to the right by half-quarter ranks, and from four form eight deep, according to the * plan annexed. After they have linked their horses, they are to march into the front and form, leaving the right and left hand man of every rank on horseback to attend them. But I shall explain this evolution more particularly in article 4.

The rear-rank must be taught to vault and skirmish, after the same manner as the light-armed troops, always retreating by the intervals between the squadrons, and rallying in their rear: but the front and centre ranks are to stand fast, as the horse do, and their susees to be slung.—These dragoons are to be employed on all the petty service of the army; to beat up the enemy's quarters; to form escorts; to surnish out-parties; and to scour the country.

Having thus explained, in general, the proper duties of the cavalry, it becomes necessary to proceed to the subject of the second article.

^{*} See plan 15.

ARTICLE II.

Of the armour of the cavalry.

I AM at a loss to know why armour has been laid aside; for nothing is either so useful or ornamental. Perhaps it may be said, that the invention of gunpowder abolished the use of it. But that is far from being the true reason; because it was the fashion in Henry IV.'s reign, and since, to the year 1667: and every one knows, that powder was introduced amongst us long before that time. I shall endeavour to make it appear, that its disuse was occasioned by nothing but the inconvenience of it.

That a squadron totally unguarded, according to the present custom, will stand but a bad chance, opposed to one armed from head to foot, is incontestable; for their swords must be useless to them. Their last and only resource, therefore, is to fire. This, as it is always highly advantageous to reduce an enemy to such a necessity, becomes an affair well

worthy our attention.

I have invented a fuit of armour, confifting of thin iron plates, fixed upon a strong buff-skin, the entire weight of which does not exceed thirty pounds. It is proof against the sword and pike: and although I cannot alledge it to be the same against a ball, especially one that is fired point-blank; nevertheless, it will resist all such as have not been well rammed down,

down, as become loofe in the barrel, by the motion of the horses, or are received in an oblique direction. But supposing that you do fustain the enemy's fire, that of the cavalry is never very dreadful: and it is a general observation, that those who have availed themselves of it, have been always defeated. It therefore becomes adviseable, even to oblige them to give their fire; which cannot possibly be effected with more certainty and eafe, than by arming your cavalry in the manner which I have been proposing; for as that will render them invulnerable by the fword, an enemy will naturally be provoked to use their small-arms: but the instant your troops have received their fire, they will rush upon them with irresistible impetuofity, grown doubly desperate from a consciousness of their own security, and a thirst of revenge for the dangers they have but just escaped. And how can those whose bodies are quite unguarded, be able to defend themselves against others, who are thus, in a manner, invulnerable? for their persons are so little exposed, that it will be impossible to wound them mortally. --- If there were only two fuch regiments in a whole army, and they had but routed a few squadrons of the enemy, the disorder would presently become general, from the formidableness of their appearance.

This kind of armour will not only have a good effect to the eye, but reduce the expence of the cloathing confiderably; for nothing more will be required, than a small buff-skin every

fix years; a cloak every three or four; and a pair of breeches. --- The hat is to be exchanged for the Roman helmet; which is so graceful, that nothing can be comparable to it; and it lasts, as does also the armour, during a man's life.—Thus the drefs will be rendered much less costly, and more ornamental: your cavalry will no longer be in a condition to dread that of the enemy; but rather be fired, from a fense of their superiority, with an eagerness to engage them. The prince who first introduces this custom amongst his troops, will reap his advantage from it; for I should not be at all furprised, to see ten or a dozen such horsemen, attack and defeat a whole squadron, because fear would prevail on one side, and courage on the other.

To fay then, that the enemy will adopt the fame measures, is to admit the goodness of them: nevertheless, they will probably persist in their errors for some time, and submit to be repeatedly defeated for years, before they will be reconciled to such a change; so reluctant are all nations, whether it proceeds from self-love, laziness, or folly, to relinquish old customs. Even good institutions make their progress but slowly amongst us; for we are grown so incorrigible in our prejudices, that such whose utility is confirmed by the whole world, are, notwithstanding, frequently rejected by us; and then, to vindicate our exceptions upon every such occasion, we only say, 'Tis contrary to custom.

To

To induce a conviction of what I have advanced, one need but call to mind the number of years during which the Gauls were perpetually conquered by the Romans, without ever attempting to retrieve their losses by any alteration in their discipline, or manner of fighting.—The Turks are now an instance of the same; for it is neither in courage, numbers, nor riches, but in discipline and order, that they are defective.

At the battle of Peterwaradin, they had above 100,000 men; we only 40,000, and yet defeated them. At that of Belgrade, they had more than double their former number; we not 30,000; and there also we conquered: and this will always be the event of their battles, while they depend upon rude numbers, in opposition to skilful conduct. These examples ought moreover to persuade us, never

to be prevented in any thing.

Any objections which may be made against this armour, from a supposition that a shot received through it will be more dangerous, are immaterial; because a ball will only force its own passage through the iron-work, without carrying the broken part into the wound along with it. But let us even grant it to be so, and only weigh the advantages resulting from the use of it, with the bad consequences which will attend the want of it, and we shall find the balance greatly in our favour: for what will signify the loss of small numbers thus occasioned by their armour, provided that, in general,

general, it gives us the superiority over our enemies, and wins our battles? If therefore it be confidered, how many men lofe their lives in an engagement by the fword, and how many are dangerously wounded by random and weak shots, against all which this kind of armour will be a protection, one cannot avoid acknowledging the utility of it. -- Nothing but indolence and effeminacy could have occafioned its being laid afide: to carry the cuirafs, or trail the pike during whole years, for the uncertain fervice of a fingle day, was deemed perhaps a hardship; but when a state so far degenerates, as to fuffer the discipline of its troops to be neglected, or convenience to supply the place of utility, one may venture to foretell, without the gift of prophecy, that its ruin is approaching.

The Romans conquered the world by the force of their discipline; and in proportion as that declined, their power decreased. When the Emperor Gratian had suffered the legions to lay aside their cuirasses and helmets, because the soldiers, enervated by idleness, complained that they were too heavy, their success forsook them; and those very barbarians whom they had formerly defeated in such numbers, and who had worn their chains during so many ages, became conquerors in their turn.

ARTICLE III.

Of arms and accoutrements for man and borse.

THE men are to have rifled * carbines; which carry much further than any others, and are more easily loaded, as the ramming down of the charge will be avoided, which is very difficult to perform on horseback: the bore of the barrels must be narrow, which will increase the violence of the ball in its discharge: they must be always slung over their shoulders in an engagement, as well as on a march.

They are also to have pouches fixed to their waist-belts, for the convenience of carrying any thing, like those in use amongst the Imperial cavalry.—Their swords must be slung after the same manner as the carbines, because in that position they will be less inconvenient, and more ornamental: their blades must be three-square, that they may be effectually prevented from ever attempting to cut with them in action; which method of using the sword never does much execution: they are also much stiffer, and more durable, than the flat kind: they must be four feet in length; for a long sword is as necessary on horseback, as a short one is on foot.—Pistols are totally to

^{*} This kind of carbine, by the affiftance of a fpring, opens at the breech, and, as has before been observed, receives the charge there. The barrel is also risled; on which account, and in order to avoid a circumlocution, that epithet only will for the future be made use of to express this entire piece of machinery.

be laid afide; for they are only a superfluous addition of weight and incumbrance.

The front-rank should be furnished with lances; which M. de Montecuculli, in his memoirs, prefers to all other weapons in use amongst the cavalry; and even fays, that they are irrefistible: but then it is necessary that the lanciers should be armed from head to foot. The length of these lances must be about twelve feet, and the staffs hollow; they weigh about fix pounds, and will ferve in pitching the tents, as will be explained hereafter. Thus the incumbrance of tent-poles will be avoided, which have a very bad appearance upon a horse, at the same time that they greatly increase his burden.

We now come to the horse-accoutrements: And with regard to the bridle, I am far from approving of that with a bit: instead of which, I would recommend a head-stall having two straight branches; and from the part where the bit is usually placed, a leathern strap should pass over the horse's nose, as may be seen in plate of This being contrived to draw close, in proportion as the rider tightens his reins, will govern a horse effectually, and answer much better than any bit: one may stop and manage the most headstrong horse at pleasure, without spoiling his mouth, or inflaming his jaws.

There is a confiderable advantage attending this fort of bridle, in that a horse will be able to feed with it on, as well as off; for, by on-

plate A Jogue R

ly flackening the reins, he is at full liberty to open his mouth; and by tightening them again, he is compelled to flut it, which will prevent his lolling out his tongue, and put a flop to feveral other bad customs which are learned by the bit: it will moreover make him raise and carry well his head. It is originally the invention of Charles XII. King of Sweden.

With regard to the faddle, I think it extremely defective. If a horse grows lean, the bow bears upon his shoulders, and galls him: if he rolls himself upon the ground, he breaks it. Thus a man becomes obliged to march on foot; for if he rides upon it afterwards, he spoils the horse's back: besides, the buckles, stirrup-leathers, and other appurtenances, are hurtful, expensive, and heavy: they are perpetually growing out of repair; and one is frequently obliged to have recourse to town-saddlers, which is attended with no small inconvenience.

From these desects of the saddle now in use, I have been induced to invent another, the form and construction of which will appear from plate 13, and the following explanation.

The bow is to be made of iron, strong and well tempered, and fixed upon a pair of cloth or leathern pannels, stuffed with either wool or hair, to the end of which must be fastened the crupper: over these must be placed a black sheep-skin, or one of any other animal, which will serve at once for housing, and as a covering for the pannels: this skin is to

plate & figure 13

be brought across the horse's chest, and will have a graceful effect; underneath it also must go a surcingle, which, in that position, can never gall either the horse or his rider, who, at the fame time, will have a very close and easy feat. The stirrups are to be the same as those used at the manege, fastened at the bow of the faddle, and capable of being shortened or lengthened at pleasure. These pannels and tkins are never to be taken off the horses backs, either by night or day, unless it be to dress them, after which they must be put on again. They can lie down with them very well; and when any fudden alarm happens, the men, having nothing to do but to mount, are formed in an instant. On grand guards, or in rainy weather, all that will be required to keep the skins clean and dry, is to roll them up upon the bows. In cases of emergency, the men may make the pannels themselves.

This entire equipage does not cost the third of ours; is infinitely more commodious; weighs nothing; and never galls a horse's back.—Having thus described the accountements of the cavalry, I shall proceed to their

utenfils.

Every man is to be furnished with a large fack, seven seet in circumference, and sive in depth; with slings for the arms, as may be seen in plate Alignthese being filled with sorage, and the men mounted again, are to be placed by their comrades en croupe, but as close to their backs as possible: upon any alarm,

plate 4. Hig 19_

they

they are to throw down their facks, and to form in fquadron. Thus, as they are never to go without their arms, instead of foragers dispersed about in a disorderly manner, they immediately become a regular body of troops, prepared to give the enemy a warm reception. But I shall treat hereafter more at large upon this

Inbject, in the article of forage.

While the horses are grafing, the men are to cut down the forage by handfuls with fickles, and to put it in their facks; but it must be fuch as is quite dry, although there should not be a sufficient quantity upon the spot to fill them; for the horses will not only have fed plentifully while it is gathering, but will carry away, without any kind of fatigue, or injury to their backs, as much as will ferve them for two or three days: from one piece of ground one must go to another, and by the time that the last is exhausted, the first will have produced a fresh supply. Thus, provided that there are five or fix of these in alternate use in the environs of a camp, the cavalry may be fubfifted for a confiderable time, without being haraffed, by long marches, to fetch their forage. These sacks, if stuffed with straw, will also occasionally serve for beds.

Sickles are better than fithes, which are not only troublefome, but have a very difagreeable

appearance upon a horse.

Instead of a cantine or barrel, every man is to have a goat-skin bottle, like those made use of in hot countries to hold liquors in. This,

with

with his linen, stockings, cap, a cord, and his few other necessaries, is to be put into the bottom of his fack, which must be afterwards rolled up together with his cloak, and fastened with two straps upon the pannels behind him.—Thus will be reduced to a very small compass, that monstrous load which is now carried by the cavalry; and which both hurts a great number of horses, and incumbers the men. But it will be necessary every now and then to examine the mens baggage, and to oblige them to throw away every thing that is uselefs. I have frequently done it, and one can hardly imagine what quantities of stuff they constantly carry with them, all which serve to increase not a little the burden of their horses. It will be no exaggeration to fay, that the very superfluities which I have sometimes found in the review of a fingle regiment, and ordered to be thrown away, have been fufficient to load twenty carriages. This is one of those evils to which the ruin of our cavalry may be in part ascribed.

ARTICLE IV.

Of the establishment of cavalry; together with their manner of forming, engaging, and marching.

THE regiments of horse and dragoons ought to be composed like those of the foot; that is to say, of sour centuries, or squadrons,

Chap. iii. 4. Of the establishment of cavalry. 73 drons, each of which is to consist of 134 men, according to the following detail.

The detail of a century of cavalry.

T Centurion.

1 Lieutenant.

4 Sub-lieutenants.

I Cornet.

1 Quartermaster.

1 Captain at arms.

1 Fourier.

2 Standard-bearers.

2 Trumpeters.

10 Brigadiers.

10 Sub-brigadiers.

100 Men.

Total 134

Staff-officers the same as to a century of foot.

With respect to the formation, the squadrons of horse are never to be diminished in their numbers, but always kept complete to this establishment, because that a great deal of time is required to perfect a trooper in his business; that none but the veteran horses will answer in service; and that they are to form a solid body.

As to the dragoons, they may be either reduced, or difmounted in time of peace; for provided they do but remain upon the esta-

K blishment

blishment of the infantry, they will be always useful.

They are to march by two's in narrow places and defiles, but by fquadrons where-ever the ground will admit. When they are obliged to lessen their front, the best method of doing it, is to rank off, and march by the centre, as may be seen in plate 1 dig the same method is to be observed in forming again.

In time of war, when an enemy is in the field, they must always march in squadron, and form instantly again after the passage of all defiles, especially where there is any probability of danger. When they are to form, and march by half-squadrons, it must be done by the

centre.

In marching by two's, the greatest care must be taken, that none of the men double their files; for if one does it, all will do it; by which means a body of cavalry will confume twelve hours on a march, which otherwise would not have required above half that time. One false step is sufficient to create all this delay, unless the officers are particularly attentive: for, if not immediately remedied, it will throw a whole column into confusion; some will be halting in one place, others again galloping in another, in order to overtake their leaders. Nothing is fo destructive to the cavalry as this want of attention; it should therefore be punished with the utmost feverity. When there are holes, or broken parts in the road, which cannot be avoided, it is much better to make

a general halt, and repair them, than to fuf-·fer troops to march over them in diforder. In passing through waters likewise, the horses must never be suffered to drink; for the halting of a fingle man for any fuch purpose, will stop a whole army. As often therefore as that happens, the officers should repair immediately to the spot, and, instead of fruitless reprimands, and ill-timed mercy, instantly chastise the offender in an exemplary manner; which is the only effectual method of putting a stop to fuch irregularities; for otherwise the men will be perpetually finding out fome weak pretence or other to halt, after which it is imposfible for them to recover their ranks, without galloping. The consequence of this, in the course of a day's march, will be, that they will not be able to reach their camp till night, when they might, and ought otherwise to have arrived there by noon. If therefore this abuse is not prevented by extraordinary care and attention, a few days march is sufficient to ruin the best cavalry.

All the different movements that the horse are required to learn, are the wheelings upon the centre, and to the right and left by halfquarter ranks; which last they will have occafion to make use of, in order to take possession of a piece of ground, when its narrowness will not permit them to do it in squadron; and likewise to vary their manœuvre, or to change their disposition, as often as situation and circumstances may require it. Nevertheless, the wheelings K 2

wheelings upon the centre, when practicable, are always the best, because they are the most

fimple.

The dragoons must be also taught to wheel to the right and left by half-quarter ranks with great celerity and exactness, when they are to dismount. A troop consisting of no more than sifty men, is to wheel by quarter ranks; and by half-quarter ranks, if it exceeds an hundred. When a body of dragoons arrives at any pass which they are to defend on foot, they are immediately to draw up in squadron; after that to perform the evolution of wheeling to the right by half-quarter ranks, as described in plast 25. and dismount. The horses, being linked together, are to be left under the care of one brigadier, and one sub-brigadier per squadron, and the right and left hand man of every rank; who will be able to march them about, and to govern them with ease: it must, nevertheless, be rendered familiar to them by practice.

It should be observed as a fundamental rule, never to halt in wheeling upon the centre, in order to dress and straighten the ranks, for no-

thing is more dangerous in action.

When the horse are to charge the enemy, they must be strictly injoined to keep their ranks and files close, and not to disperse on any pretence: their standards are to be facred to them; and whatsoever may be the event of the engagement, their duty is always to rally to them. When cavalry are so well versed in these

plates figure 15

Chap. iii. 4. Of the establishment of cavalry. 77

these principles, as to be governed by them in practice, they will be invincible.

In charging, they are first to move off at a gentle trot to the distance of about an hundred paces; from thence to increase their speed in proportion as they advance, till they fall at last into a gallop: but they must not close to the croup, till they come within about twenty or thirty paces of the enemy; and even then, they are to receive the following word of command, as a fignal for it, from an officer, Follow me! --- As this manœuvre is to be performed with the utmost celerity, they must therefore be familiarized to it by constant exercife; but it is above all things necessary, that they should practife galloping large distances. A fquadron, that cannot charge two thousand paces at full speed without breaking, is unfit for fervice *. It is the fundamental point; for after they have once been brought to that degree of perfection, they will be capable of any thing, and every other part of their duty will appear eafy to them.

The dragoons are not only to be rendered as perfect as the horse in these exercises, but must also be taught to skirmish; their rear-rank is to disperse, to retreat, and form again with celerity: they are to practife firing on horseback, with fuch rifled fusees as are used by the lightarmed troops, and likewise to learn the exer-

cise of the infantry.

In time of peace, and in winter-quarters in

^{*} The Prussian cavalry are upon this footing.

time of war, their horses are to be violently exercised, at least three times a-week, in order to inure them to satigue, and to keep them in wind.—— The same severe usage is also proper for the heavy cavalry at those times; for they must never be spared, or tenderly treated but in the field, where they are constantly

exposed to hardships.

The best opportunities of teaching horses to stand fire, are when the infantry perform their exercises; but they must be broke to it by slow degrees, and very gentle measures; and never be beaten, but, on the contrary, stroked and encouraged as much as possible. In the space of a month, they will be perfectly reconciled to it, and even lay their heads on the muzzle of a fusee, without any fright or surprise. Nevertheless, they must not be suffered to approach too close during the firings; for if once they get burnt, it will be no eafy matter to bring them near again: neither must they be allowed to wheel fuddenly about, or fidewife, when the men fire; for unless those motions are guarded against at first, they will presently become habitual, like those of the hussars.

ARTICLE V.

Of foraging, green and dry.

Foraging makes an effential part of the art of war. The country where it is intended to be, must first be reconnoitred; and, in doing that, the disposition must be made:

the number of horse or foot required to form the chain, is to be proportioned to the degree of danger, and the nature of the fituation; but one must always endeavour to cover at least one fide effectually from the infults of the e-

nemy.

The method of foraging for the cavalry, which I have already proposed in the third article, will, in a great measure, prevent those disagreeable accidents, to which such parties are in general exposed; yet they are always to have one standard, two trumpeters, and one field-officer per regiment, and one subaltern

per squadron.

The foragers ought not to disperse themfelves too far: every regiment is to take pof-fession of the piece of ground which is assign-ed to it, and its foragers are to be obliged to confine themselves within the limits of it: a detached guard of ten men per regiment, are to remain with their standard, together with the two trumpeters; who, in case of any any alarm, are to found the call; upon which their respective foragers are immediately to repair thither.

As foon as every regiment has done foraging, and all the men belonging to it are affembled, it may be at liberty to return to camp, without waiting for the others; but the chain of centries is to continue, as long as the commanding officer shall think proper.

It is incredible how much the horses are galled by truffes; for they weigh five or fix

hundred

hundred pounds, and fometimes remain upon their backs eight or ten hours: now and then they are detained abroad whole nights on foraging parties; which alone is fufficient to ruin them, exclusive of any other duties. in marching through rough roads, or defiles, a truss breaks, or drops off, or a horse falls down, the whole party are obliged to halt. This is an accident which frequently happens; and while it is repairing, the other horses being impatient of their burdens, grow restless, and kick one another. Thus, instead of one truss, there are prefently twenty thrown down. In rainy weather likewise, the ground is so soft and slippery, that it is impossible for them to keep their feet; by which means the forage must be dragged through the dirt, and consequently a great part of it spoiled. In short, it is better to deprive the poor animals of it altogether, than to oblige them to purchase it at so dear a rate.

According to the method of foraging that I propose, neither loss nor inconvenience can happen; the horses will bring a greater quantity of forage into camp, without being exposed to any fort of injury in the carriage.——But besides the many difficulties attending the present manner of foraging, which I have above recounted, one might add the confusion and distress that must ensue, if the foragers are attacked at any distance from their camp. The loss of all their forage is the least missfortune that can befal them; for as they always take

to flight on fuch occasions, and every man endeavours to provide for his own fafety only, their disorder is such, that if they find a bridge, ford, or defile in their way, you will fee them precipitate themselves by hundreds: their fear so totally divests them of their understanding, that they crush and drown one another.

My scheme, if followed, will effectually prevent any thing of this kind from happening: for the enemy, being advertised of your disposition, will not presume to attack you, from a certainty of being repulsed; at least not without a very superior force; in which case it will be impossible for them to surprise you, or to conceal their march with fo large a body.

Having dispatched what is called green foraging, I shall now proceed to speak of dry. This usually commences in the month of September. To do it in safety, it is necessary that the villages should be possessed by infantry, and the adjacent country covered by patroles, and advanced parties of cavalry: the main body must be posted as near the centre as possible, that it may be in equal readiness to march to any part which may be attacked. After the foraging is over, all the parties must be affembled, in order to form the rearguard; from which detachments are to be made, to patrole upon the flanks, if they appear expofed to any danger; and to take possession of the passes, defiles, eminencies, &c.

That part of the forage which is received in

grain, the men must thresh; and cutting the ftraw in half, put the whole into their facks *. This method of conveyance prevents all that lofs, which is unavoidable in the use of trusses, where all the corn sheds in carriage.

ARTICLE

Of tents, and the method of incamping.

Have already observed, that lances are to supply the place of tent-poles in incamping: in plate o6. therefore is represented a tent, supported in the manner which I have above recommended, and capable of containing a whole century, or fquadron, the men as well as horses included. It is of infinite consequence to keep the horses warm, and under cover, particularly in the autumn, when the nights grow cold; the omission of which is one of the principal reasons why they waste away so visibly during that feafon.

These tents will effectually protect them from the severity of the weather, especially if the men furround them with branches platted together, and fweep the dung into the intervals between, because that cementing will form a kind of wall. With these precautions the horses will require much less feeding, and consequently not be exposed so frequently to the fatigue of fetching forage. By the same rule, an army will be able, both to subsist in one place, and to keep the field much longer,

* See plate 4. Jug 12

than

than an enemy not having recourse to the like measures; all which appear to me circumstan-

ces highly deferving a ferious attention.

According to the present method of picketing the horses, they certainly spoil the greatest part of their straw when it rains, by trampling it amongst their dung; and although the men supply them with fresh litter upon such occasions, that also must presently be reduced to nothing but filth: to avoid lying down upon which, they rest with their sour feet and head under them, catch a severe cold, are seized with a fit of the colic, and die upon the spot.

Under these tents there will be no occasion for straw at all, as the ground must always remain dry; which will produce a saving of at least one half of the usual quantity of forage, and consequently diminish, in the same proportion, the labour of fetching it. Thus you will both spare your horses, and be able to subsist a much longer time in the same camp.

If all these things are put together, and properly considered, the advantages resulting from what I have proposed will easily be conceived. Let us but compare my method of foraging with that in present practice; reslect upon the various accidents, losses, and fatigues, which constantly attend the latter, opposed to the ease, convenience, and security of the former, and it will appear how much it deserves the preference.

The carriage of these tents, notwithstanding their size, will be no particular incum-

brance to the horses; or they may be made to take in pieces, and be carried by the men. The quantity of cloth required for one of them is near fifty ells less than what is used for a squadron of 130 men, according to the present method; which will appear an extraordinary difference. Nevertheless, such as have curiosity enough to make a calculation, will find it true.

ARTICLE VII.

Of detachments, or parties of light-armed cavalry.

THE theatre or fituation of a war must determine the utility, as well as success of parties. Large detachments of cavalry are feldom employed, but upon enterprifes which require vigour and expedition; fuch as the intercepting of convoys, furprising of posts, or sustaining of advanced parties of infantry; on all which they are of great use. --- Amongst other instances, suppose you receive intelligence that the enemy have a defign to attack your rearguard, or your baggage, with a confiderable force; they will be deterred from putting it in execution, if, the day before your march, you have detached a large body an opposite way; for that will serve to amuse them, and, being at a loss to know positively its route or destination, they will be asraid of falling in between both your parties, and becoming exposed to two fires. Detachments of this kind should be always strong, and the commanding

commanding officers men of parts and experience; for of all the duties incident in fervice, these are the most replete with hazard and difficulty in execution; at least, where the object is not fixed: otherwise, when ordered to take possession of, or surprise some particular post, or to intercept some convoy, they have nothing to do but to be governed

by their instructions.

The duty of the cavalry is fuch as renders a knowledge of the feat of war indispensably necessary to them; their excellence confists in resolution, and a quick perception of every situation or circumstance capable of producing any advantage. Parties of them must be always out; but, in general, they are not to consist of more than fifty men, and should avoid engaging with the enemy; for the intention of them is nothing more than to gain intelligence, and to pick up prisoners. --- If the enemy is bold in his measures, and makes large detachments to oppose yours, a watchful eye must be kept over his conduct, till, by a constant observation of all his proceedings, a fuccessful opportunity may be found of attacking him by surprise with a more powerful force. Having then obtained a superiority in the field, he will no longer presume to molest your small parties: you will be able to observe all his motions, so that it will be impossible for him to take the least step without your receiving immediate intelligence of it; you will remain fecure and undisturbed, he exposed to continual

continual fatigue and danger; your foragingparties will be subject to no interruption, his obliged to use the utmost precautions to escape it.

These are the duties on which dragoons are to be employed; and, after having been inured to them by practice, they will be infinitely superior to hussars; because they are capable of the fame expedition, and much more fervice. A party of fifty dragoons need be under no apprehensions from the appearance of a multitude of huffars; for they are always to march on a trot; and when they come to the least defile, the hussars will not dare to pursue them further. After they have been taught, by exercise and experience, to know their own power, no enterprise will appear difficult to them; infomuch that even the enemy's grand guards will be obliged to fubmit to perpetual infults from them.

C H A P. IV.

1. Of the grand manœuvre. 2. Of the column.

ARTICLE J.

Of the grand manœuvre.

Am perfuaded, that unless troops are properly supported in an action, they must be defeated; and that the principles which M.

M. de Montecuculli has laid down in his memoirs, are founded upon certainties. He fays, that infantry and cavalry should be always reciprocally fustained by each other. Nevertheless, we, in direct opposition to his measures, post all our cavalry upon the wings, and our infantry in the centre, each to be sustained by itself only: which disposition, as the interval between our lines is usually five or fix hundred paces, is in itself sufficient to intimidate the troops; because it is natural for every man who fees danger before him, and no relief behind, to be discouraged: and this is the reafon why even the fecond line has fometimes given ground, while the first was engaging; which is what many others, probably, as well as myself, have seen happen more than once; and although it seems hitherto to have escaped the reflection of any, cannot, as I have already observed, be imputed to any other cause, than the frailty of the human heart. The following is a transcript of what the abovementioned illustrious author fays upon this subject.

"In the armies of the ancients, every regi-" ment of foot had a certain proportion of "horse and artillery. The horse were divided into two forts, under the appellation of " beavy-armed and light-armed; the former " of which wore breaft-plates: why therefore " would they incorporate these distinct bodies together, unless it was on account of the

absolute necessity of such a connection, and

" the

" the mutual fervice they would be capable of rendering each other, by acting in concert? According to the modern practice, where all " the infantry is posted in the centre, and the cavalry upon the flanks, to the extent of fe-" veral thousand paces, how is it possible they can support each other? If the cavalry are defeated, it is evident that the infantry, be-" coming abandoned, and their flanks exposed, " must unavoidably share the same fate from " the enemy's cannon at least, if not by other means; which happened to the Swedes in " the year 1614. When their cavalry had " been driven off the field of battle, they per-" ceived the error of their disposition; and, in order to remedy it, posted some platoons of musketeers between the squadrons: but all efforts were then ineffectual; for the fquadrons were totally difordered, and the pla-" toons, not having any body of troops at hand " to retire to, nor pikemen to cover them, " were put to the fword; for how could they " possibly retreat to their infantry, which was " at so great a distance?"

It is for these reasons that I have posted small bodies of cavalry, at the distance of thirty paces, in the rear of my infantry; and battalions of pikemen, formed in the square *, in the interval between my two wings of cavalry; in the rear of which likewise, it will be able to

rally, if broken or repulsed +.

My * See plate 7. Vig 5/ † Perhaps it may be objected, that this cavalry, if repulsed by My fecond line of cavalry will never fly, fo long as they fee the fquare-battalions in their front, and their countenance will also animate the first. The battalions will maintain their ground, from the persuasion of being soon succoured by the cavalry, who, under the cover of their fire, and a vigorous resistance, will presently form again, and renew the charge with fresh courage, in order to retrieve their honour, and wipe out the disgrace of their late discomsiture: the battalions will moreover serve to cover the slanks of the infantry.

Some very improperly post small bodies of infantry between the intervals in their line of cavalry. The weakness of this disposition is alone sufficient to intimidate them; for the foot see, that if the cavalry are deseated, they must inevitably be cut to pieces: and if the cavalry, who have also a dependence upon them, make but a brisk movement, they leave them behind; so that perceiving they have lost their assistance, they soon fall into confusion; and being put to flight, leave the slanks of your army open to the enemy.

Others again post squadrons of cavalry amongst their infantry; which is equally absurd; for the destruction of horses from the enemy's

by the enemy, will fall into diforder upon the square-battalions. But it should be observed, that the Marshal furnishes them with pikes on purpose to render them capable of opposing the shock of cavalry: besides, the intervals between them are so large, that however precipitate the horse might be in their retreat, it is improbable they would fall upon them; but, for a farther security, they might be covered with chevaux de frise.

M fire

fire occasions disorder; and if the cavalry give way, the infantry will presently do the same.

But I would ask in what manner squadrons in this disposition are to act? Are they to stand fast, sword-in-hand, and wait the attack of the enemy's infantry, firing and advancing upon them with fixed bayonets? or must they make the charge themselves? If they do the last, and are repulfed, which will most probably be the case, they must break their own infantry in their retreat; because it will be difficult for them to find their former posts again, and the intervals allowed them being small, will certainly have been filled up: for the battalions are subject to such great inconveniencies from their present method of forming, that the disorder of a few files, whether occasioned by their own movement, the doubling of the ranks, or the enemy's cannon, is fufficient to throw the whole into irretrievable confusion. -It is far otherwise with my centuries: they follow each their respective standard, and keep in a body together; all diforders amongst them are easily remedied; and if not, so long as they are guided by their standards, which are to range in a line with that of the legion, no fatal consequence can ensue; because the officers will be able to keep the ranks ftraight, which it is impossible for them to do in the battalions; and this being also one great defect in M. de Folard's column, I shall take the present opportunity to give my sentiments of it.

ARTICLE II.

Of the Column.

Notwithstanding the very great regard I have for the Chevalier Folard, and the high esteem I entertain for his ingenious writings, yet I cannot agree with him in opinion, concerning the column. It is striking indeed, and formidable in appearance, and the idea of it which first presented itself to my imagination, seduced for a while my judgment, till, by trying it in execution, I became convinced of my error. The following analysis, or calculation, will be necessary to discover the defects of it.

In action every man is to be allowed one foot and a half, or eighteen inches distance; and the flanks of the column are to face outwards; which flanks, in whatfoever order it is formed, must be always composed of at least forty files in depth, upon twenty-four ranks in breadth: thus, when faced, it confequently takes up fixty feet for its flank-front. In marching, it requires one hundred and twenty, which is double its former distance, because a man will not be able to move without kicking his leader, if confined within the space of eighteen inches; but to march with celerity, must be allowed three feet: so that when the front of the column marches first off its ground, the rear will be obliged to wait, till it has gained fixty paces; and likewise to march the same distance, after the front has halted; which, M 2

which, as it must make intervals in the flanks, will expose them to great danger. This defect will naturally be increased, in proportion to the number of files which are added; so that a column, consisting of two hundred and forty, will occupy in its standing order three hundred and sixty seet in length; and, of course, seven hundred and twenty, marching. After having pierced the enemy, its flanks are to face to the right and left outwards, in order to charge their broken ranks; but as it takes up double its proper allowance of ground, its files will remain open, and large intervals be left; especially if the charge is made with speed and impetuosity, which ought to be the property of the column.

The Chevalier is very much deceived in imagining it to be a body capable of moving with ease; insomuch that I do not know any one so unwieldy, particularly when it is formed in the manner just above described. If it happens, that the files are once disordered, either by marching, the unevenness of the ground, or the enemy's cannon, which last must make dreadful havock amongst them, it will be impossible to restore them to good order again. Thus it becomes a huge, inactive mass, divested of all manner of regularity, and totally involved in confusion. I do not think, notwithstanding what the Chevalier says, that the weight of it can be of any great consequence, for the men do not push one another forwards in the manner which he defcribes:

fcribes; neither is it possible they should, while they take up three paces distance, which they

are obliged to do in marching.

In retreating, it has the advantage of battalions formed in the fquare; not that it is capable of marching with more celerity, but because every part moves together; and although it be even pierced by the enemy's cavalry in pursuit, yet the injury it will thereby sustain is inconsiderable; for they must be exposed to a fire from behind, and the interval they make

will presently be closed up.

Two battalions, formed back to back, will answer the same purpose, marching by files, and facing to the right and left outwards, when necessary. This method of retreating must be performed very flowly; for otherwise the rear will foon be feparated from the main body, by reason of that distance of three feet, which every man will take up in marching. - But to believe, that the column is an active and light body, is an error of which I am thoroughly convinced; infomuch that I am even induced to think it a dangerous disposition, when composed of but twenty-four by fixteen, on account of the difficulty of forming it again, when once broken or difordered. Properly, it should never confist in breadth of more than two battalions, formed each four deep; which does not at all confound their natural order.

What I have been faying concerning the room which every man must necessarily take up, shews the danger of marching by files. If

you do it in the presence of an enemy, in order to fill up any interval, you must inevitably be undone; for your battalion will then occupy double its former quantity of ground, and you will also require double the proper time to form it again: As, for instance, suppofing your battalion confifts of 600 men with files closed, it will cover 225 feet; if it is to gain ground to the right, the right-hand man will have marched that distance before the lefthand man has moved; and after the former has halted, the latter will have the fame number of feet to march, before the battalion can be in its proper order, to face to the front again; which together takes up as much time as would be necessary to march the distance of 450 feet, or 180 paces. If then the enemy is a hundred paces off, and feizes this opportunity to charge you, he will have the advantage of as much time, before you can be formed, as is required to march eighty paces. The danger of this movement naturally increases, in proportion as you augment the number of troops that are to make it; for if you have four battalions, and the enemy is at the distance of 800 paces, you are exposed to as great a difadvantage. In this I proceed upon geometrical principles, to which it is necessary to have recourse on many occasions in war.

The tast or cadence is the only effectual remedy for these defects, on which the event of all engagements totally depends. It is what I have dwelt upon the longer, on purpose to de-

monstrate

monstrate the great efficacy of it, and, at the fame time, to expose the ignorance of our modern disciplinarians; who, notwithstanding they concur with me in regard to the reality of these errors, remain yet unacquainted with any other method of avoiding them in prac-

tice, than by marching flow,

We cannot even bring a fingle battalion, drawn up but four deep, to the charge, with-out being subject to the inconvenience of which I have been speaking; unless we march at a fnail's pace, our ranks and files, when we approach the enemy, are open. This monstrous defect in our discipline is what gave rise to the present method of firing; for to charge otherwise, it is necessary to move briskly and together; which cannot be done, allowing only eighteen inches to a man, without the tactic.

It is also impossible, that the Romans and Macedonians, as their manner of forming was in close and deep order, could engage with-out it. It is a term which is very familiarly used, but has hitherto, methinks, been totally

misapplied or mistaken.

I have frequently been furprised, that the column is not made use of against the enemy on a march; for it is certain, that a large army always takes up then three or four times more ground than is necessary to form it. If, therefore, you get intelligence of the enemy's route, and the hour at which he is to begin his march, although he is at the distance of fix leagues from you, you would have very fuffi-

cient

cient time to intercept him; for his front usually arrives in the new camp before his rear has quitted the old. It is impossible to form troops that take up so much more than their proper quantity of ground, without making large intervals, and a dreadful consusting. Notwithstanding which, I have very often seen the enemy suffer it to be done without molestation; when one would have imagined, that nothing less than sascination could have prevented his taking the advantage of an op-

portunity so favourable to him.

The present subject might furnish a very useful chapter; for how many different countries will occasion such straggling marches? and in how many places may one make an attack without risking any thing? how frequently does it happen to an army, to be divided on its march by bad roads, rivers, difficult paffes, &c.? and how many fituations will enable you to surprise some part of it? How often do opportunities present themselves of separating it, fo as to be able, although inferior, to attack one part with advantage, and at the same time, by the proper disposition of a small number of troops only, prevent its being relieved by the other? But all these circumstances being as various and undeterminate as the situations which produce them, nothing more is required, than to keep good intelligence, to acquire a knowledge of the country, and to assume the courage to execute; for as these affairs are never decifive on your fide, and may be fo on

that of the enemy, the risk you run is inconfiderable, when compared with the advantages you may gain: the manner of attack is with the heads of your columns, which are to charge as fast as they arrive, and to be sustained by the others which follow; so that your disposition is made in a manner spontaneously, and you attack an enemy without either order or support, and totally unprepared to make any defence.

Thus have I described the natural use and properties of the column. But I find I have wandered from my defign, which was, to confine myself here to the rudiments, or first principles of the military art, and to reserve my observations on the sublime branches for another place.

CHAP. V.

Of fire-arms, and the method of firing.

Have already observed, that the present method of firing by word of command, as it keeps the foldier in a constrained position, prevents his levelling with any exactness; and that it is, moreover, dangerous in all fitua-tions where there is a possibility of coming to close quarters. You must necessarily halt, in order to give your fire; and if the enemy referves his, and at the same time marches briskly up, you must infallibly be defeated; for N

your troops depend upon the execution to be done by their discharge, and when they afterwards perceive their expectations so dreadfully disappointed, they will certainly abandon you.

—— For these reasons the firing of small arms, where the close fight is practicable, ought entirely to be laid aside; but where you are separated from an enemy by hedges, ditches, rivers, hollows, and such like obstacles, it is of great use, and cannot be too much encouraged.

I have above recommended the rifled fusee, as it is charged quicker, and carries not only further, but with more exactness. According to the present method of loading, the soldiers, in the tumult and hurry of an engagement, very seldom ram down their charge, and are also very apt to put the cartridges into the barrel, without biting off the caps; by neglecting to do which, many of the arms are of

course rendered useless.

In order to obviate this mischief, I would have the cartridges larger than the muzzle of the pieces, that the men may not be able through carelessness to load that way: they should also be made of parchment, and pasted up at the tops, which would easily be uncapped with the teeth; and they ought to contain a sufficient quantity of powder for both the priming and charge. The balls are to be carried in the pouches, which in action the men are to take out by four, or five at a time,

and to hold them in their mouths, for the fake

of more readiness in loading.

To dislodge the enemy from any post on the other fide of a river; from hedges, ditches, and fuch other fituations, where the use of fmall arms is necessary; I would appoint an officer, or non-commissioned officer, to the command of every two files; who should advance the leader of the first a pace forwards, and shew him where he is to direct his fire, permitting him afterwards to use his own time; that is, to avoid hurrying him to make it, before he has taken proper aim at his object. Having fired his own fusee, the man who covers him, is immediately to give him his, and fo on the others of the same file, passing their arms from hand to hand, till their file-leader has discharged them all four successively. It must be extremely unfortunate indeed, if the fecond or third shot does not take place; for the commanding officer is close by him, obferves his behaviour, directs him where to fire, and diffuades him from all hurry. Thus, as he neither waits for the word of command in any constrained posture, nor is in the least confufed or interrupted by any body, he will be able to fire his number of times with great ease.

This file having done, the officer is to make it retire, and to replace it with the fecond; which is to perform the fame as the first. After the fecond has finished its fire, the first, having had more than sufficient time to load, is to be advanced again; which may be repeated in the same successive order for many hours to-

gether, if necessary.

This method of firing must do such prodigious execution, that I not only think it preferable to any other, but even irrefistible: that by platoons or ranks it would prefently filence: and although every man amongst them was a Cæfar, I would defy them to maintain their ground against it, for the space only of a quarter of an hour; for one can fire fix times in a minute with ease; nevertheless, I shall only fay four; allowing which, every fusee will have fired fixty shots in a quarter of an hour, and consequently the file-leaders of a battalion, confisting of five hundred men, thirty thoufand; exclusive of the light-armed forces, which, within the space of an hour, will be able to fire about twenty thousand; and that with much more exactness than what we see used at present.

If during a fiege, therefore, two regiments, disposed in this manner, are posted upon a curtain, opposite to any work which the enemy have taken by assault, and where they will require an hour's time to make good their lodgement, they must be exposed to no less than two hundred and eighty thousand shots in the doing of it.—— According to the present method of firing, a soldier, after having loaded, runs upon the banquette, and pops off his piece over the parapet; but whether he fires into the air, or the sosse, is a matter of accident; for he is usually in a hurry, and does not allow

himself

himself time either to distinguish, or take aim at any particular object: the battalions are, moreover, in confusion, and I am persuaded, that out of twenty shots, hardly two fall even within the work where the enemy has made his lodgement. Whilst, on the contrary, according to my disposition, every one will take place, which must consequently produce a very different effect. This method of firing may be also of infinite service against cavalry, especially when accompanied with the protection of my pikes.

C H A P. VI.

Of colours or standards.

THE general, or commander in chief of an army, should have a standard to be carried before him, as a mark of his dignity; which would be also useful, in facilitating the means of finding him upon all occasions.

As the colours or standards are of the greatest importance in action, they therefore require our particular regard and attention. In the first place, they should all be of different colours, that the legions, regiments, and even centuries to which they respectively belong, may be readily distinguished in an engagement.

The men must be taught to think it a mat-

ter of conscience, and an indispensable obligation, never to forfake them: they are to be looked upon as things facred, and regarded with a respect inviolable. It is necessary therefore, in order to produce this effect, that they should be always attended with great form and folemnity. This is an effential point to be obtained; for after troops are once brought to fuch a degree of attachment to them, they can hardly ever fail of fuccess in any enterprise; resolution and courage will be the natural consequences of it: and if, in desperate affairs, some determined fellow seizes but a * standard, he will render the whole century as intrepid as himfelf, and be followed by it wherefoever he leads the way.

The standards being distinguishable by their different colours, will render the actions of every century conspicuous: A circumstance which must create the greatest emulation, because both officers and soldiers will be confcious that they are exposed to observation; that their countenance, conduct, and behaviour, are apparent to the rest of the legion.

The first century that shall have carried a pass, forced a retrenchment, or made a vigo-

^{*} The religious care which the Roman soldiers took of their enfigns or standards, was extraordinary. They worshipped them, swore by them, and incurred certain death if they lost them. Hence it was an usual stratagem, in a dubious engagement, for the commanding officers to fnatch them out of the bearer's hands, and throw them amongst the troops of the enemy, knowing that their men would venture every thing to recover them.

rous charge, will be easily distinguished, and gain the applause of the whole army: the men, as well as officers, will from thence become more united: their exploits will be the constant subject of conversation; and the glory with which they are crowned, will be a powerful incitement to the imitation of them. Thus things, which are but trisles in themselves, will tend to diffuse a general spirit of emulation amongst the troops, and, in course of time, will render them invincible.

The particular number of every century must be distinguished by the colour of its standard: As, for instance, white might signify number 1.; black, 2.; yellow, 3.; green, 4.; red, 5.; blue, 6.; chocolate-colour, 7.; crimfon, 8.; sea-green, 9.; sky-blue, 10.; black and white in a lozenge, 11.; green and yellow in two bends, 12.; yellow and blue by the angles, 13.; a green cross upon a yellow ground, 14.; a red cross en fautoir upon a white ground, 15.; three bends, yellow, green, and red, 16.

Every standard must have a white quarter near the staff, to hold the number of the legion, which is to be marked in Roman characters.—— Thus the designs and colours will serve to distinguish the centuries of every legion, and the cyphers the legions themselves.

CHAP. VII.

Of artillery and carriage.

Never would have an army to confift of more than ten legions, eight regiments of horse, and sixteen of dragoons; which would amount to thirty-four thousand foot, and twelve thousand horse; in the whole, fortyfix thousand men.

A general of parts and experience commanding fuch an army, will be always able to make head against one of an hundred thousand; for multitudes ferve only to perplex and imbarrass: not that I think referves are unnecessary, but only that the acting body of an army ought not to exceed fuch a number.

M. de Turenne was always victorious with armies infinitely inferior in numbers to those of his enemies, because he could move with more ease and expedition; knew how to secure himself from being attacked in every situ-

ation, and kept always near his enemy.

It is fometimes impossible to find a piece of ground in a whole province fufficient to contain an hundred thousand men in order of battle, which subjects an army that is so strong to the necessity of being frequently divided. Thus I would feize a favourable opportunity of attacking one part of it; and having defeated that, should thereby intimidate the other, and foon gain a superiority.

In

In short, I am persuaded, that the advantages which large armies have in point of numbers are more than lost in the extraordinary incumbrance, the diversity of operations under the jarring conduct of different commanders, the deficiency of provisions, and many other inconveniencies, which are inseparable from them.

But it is here somewhat unseasonable to treat of this subject, only that I have been led to make this digression for the sake of ascer-

taining the proportion of things.

Sixteen pounders are equally as useful as twenty-four pounders to batter in breach, and are much less troublesome in carriage: fifty of them, together with twelve mortars, and a proportionable quantity of ammunition, will be sufficient for such an army as I have just been describing. Boats, with all the proper tackling to make a bridge; twelve pontons with joints *, for the passage of canals and fmall rivers; together with all other necessary instruments and utenfils. These jointed pontons do not consume above seven minutes time in laying, and are also as readily taken up again: they are of very great use for the communication of armies, and will require only four oxen to draw them all.

The carriages for provisions must be totally of wood, without any fort of iron-work about them; fuch as those of the Muscovites, and also those which we see come out of the

^{*} See plate 5. fig. 18.

Franche-Comte to Paris: they travel from one extremity of the kingdom to the other, without damaging the roads; one man is sufficient to drive four with ease, each being drawn by two oxen only: ten of our carriages do more detriment to a road than a thousand of these. - If we do but reflect upon the inconveniencies occasioned by our present method of carriage, we shall see the use, as well as necessity of adopting this. How frequently does it happen, that there is a total want of provisions, because the carriages have not been able to get up? How often is the baggage, and likewise the artillery, left behind, which obliges the whole army to make a fudden halt upon the fpot, however inconvenient it may be? A little rainy weather, and but a hundred or two of carriages, are enough to break and destroy a good road to such a degree, as to render it afterwards impassable; and notwith-standing you repair it with fascines, yet the succeeding hundred leave it in a worse condition than it was before; for it will be cut to pieces with the wheels, by reason of that vast weight which is thus supported upon two points only.

All the carriages belonging to an army ought to be drawn by oxen; on account, in the first place, of their equality of pace; in the second, because they are attended with no loss; in the third, every situation will produce sufficient forage to support them; in the fourth, when any are maimed or destroyed,

others.

others may be had from the magazines: add to which, that only a small quantity of gear is required, and that where-ever the army halts, they immediately find their natural food and nourishment. — A single man, and eight oxen, will be able to draw more than four men, with a dozen or fifteen horses: neither will they consume the forage which they should bring to camp, as the horses do, because they are left to pasture, while the fervants are gathering and loading it; all which is moreover done without any manner of trouble or inconvenience. Such as get maimed must be killed and eaten, and are to be replaced by others out of the magazines.

All these reasons have induced me to prefer them to horses for carriage; but they must be likewise marked, that every one may be able

to distinguish his own in the pastures.

C H A P. VIII.

Of military discipline.

Ext to the forming of troops, military discipline is the first object that presents itself to our notice. It is the soul of all armies; and unless it be established amongst them with great prudence, and supported with unshaken resolution, they are no better than so many contemptible heaps of rabble, which are more O 2 dangerous

dangerous to the very state that maintains them, than even its declared enemies.

It is a false notion; that subordination, and a passive obedience to superiors, is any debasement of a man's courage; so far from it, that it is a general remark, that those armies which have been subject to the severest discipline, have always performed the greatest

things.

Many general officers imagine, that in giving out orders they do all that is expected from them; and therefore, as they are fure to find great abuses, enlarge their instructions accordingly; in which they proceed upon a very erroneous principle, and take fuch measures as can never be effectual in restoring discipline in an army wherein it has been lost or neglected.

Few orders are best; but they are to be executed with attention, and offences to be punished without respect of either rank or extraction. All partiality and distinction must be utterly abolished, otherwise you expose yourfelf to hate and refentment. By enforcing your authority with judgment, and fetting a proper example, you may render yourself at once both beloved and feared. Severity must be accompanied with great tenderness and moderation; fo displayed upon every occasion as to appear void of all manner of defign, and totally the effect of a natural disposition.

Great punishments are only to be inflicted for great crimes: but the more moderate they are in general, the more easy it will be to reform abuses, because all the world, concurring in the necessity of them, will chearfully promote their effect.

We have, for example, one very pernicious custom; which is, that of punishing marauders with certain death, so that a man is frequently hanged for a single offence; in consequence of which they are rarely discovered; because every one is unwilling to occasion the death of a poor wretch, for only having been seeking

perhaps to gratify his hunger.

If, instead of this method, we did but send them to the provoft's, there to be chained like galley-flaves; and condemned to fubfift upon bread and water for one, two, or three months; or to be employed upon some of those works which are always carrying on in an army; and not to be restored to their regiments, till the night before an engagement, or till the commander in chief shall think proper: then all the world would join their endeavours to bring fuch delinquents to punishment: the officers upon grand guards and out-posts would not fuffer one to escape; by whose vigilance and activity the mischief would thus be soon put an entire stop to. Such as fall at present into the hands of justice, are very unfortunate indeed; for the provost and his party, when they discover any marauders, immediately turn their eyes another way, in order to give them an opportunity to escape: but as the commander in chief is perpetually complaining of the outrages which

which are committed, they are obliged to apprehend one now and then, who falls a facrifice for the rest. Thus the examples that are made have no tendency towards removing the evil, or restoring discipline; and hardly answer any other purpose, than to justify the common faying amongst the soldiers, "That" none but the unfortunate are hanged."— Perhaps it may be observed, that the officers likewise suffer marauders to pass by their posts unnoticed. But that is an abuse which may be easily remedied, by discovering from the prisoners what particular posts they passed by, and imprisoning the officers who commanded them, during the remainder of the campaign. This will render them vigilant, careful, and fevere: nevertheless, when a man is to be punished with certain death for the offence, there are but few of them who would not risk two or three months imprisonment, rather than be instrumental to it.

All other military punishments, when carried to extremes of severity, will be attended with the same consequences.—It is also very necessary to prevent those from being branded with the name of infamy, which should be regarded in a milder light; as the gantlope, for instance, which in France is reputed ignominious; but which, in the case of the soldier, deserves a different imputation, because it is a punishment which he receives from the hands of his comrades. The reason of its being thus extravagantly vilisied, proceeds from the cuftom

from of inflicting it in common upon whores, rogues, and such offenders as fall within the province of the hangman; the consequence of which is, that one is obliged to pass the colours over a soldier's head, after he has received this punishment, in order, by such an act of ceremony, to take off that idea of ignominy which is attached to it: A remedy worse than the evil, and which is also productive of a much greater: for after a man has run the gantlope, his captain immediately strips him, for fear he should desert, and then turns him out of the service; by which means this punishment, how much soever necessary, is never inflicted but for capital crimes; for when a soldier is consined for the commission of any trivial offence, the commanding officer always releases him, upon the application of his captain, because, forsooth, the loss of the man would be some deduction from his perquisites.

There are some things of great importance towards the promotion of discipline, that are, notwithstanding, altogether unattended to; which, as well as the persons who practise them, are frequently laughed at and despised.—The French, for example, ridicule that law amongst the Germans, of not touching a dead horse: which is, nevertheless, a very sensible and good institution, if not carried too far. Pestilential diseases are, in a great measure, prevented by it; for the soldiers frequently plunder dead carcases for their skins, and thereby expose themselves to insection. It does not prevent

the killing and eating of horses during sieges, a scarcity of provisions, or other exigencies. Let us from hence, therefore, judge, whether it is not rather useful than otherwise.

The French also reproach the Germans for the bastinade, which is a military punishment established amongst them. If a German officer strikes, or otherwise abuses a private soldier, he is cashiered, upon complaint made by the party injured; and is also compelled, on pain of forfeiting his honour, to give him satisfaction, if he demands it, when he is no longer under his command. This obligation prevails alike through all ranks; and there are frequently instances of general officers giving satisfaction, at the point of the sword, to subalterns who have quitted the service; for there is no refusing to accept their challenge, without incurring ignominy.

The French do not at all scruple to strike a soldier with their hands; but they are hardly ever tempted to apply the stick, because that is a kind of chastisement which has been exploded, as inconsistent with that notion of liberty which prevails amongst them. Nevertheless prompt punishments are certainly necessary, provided they be such as are not ac-

counted dishonourable.

Let us compare these different customs of the two nations together, and judge which contributes most to the good of the service, and the proper support of the point of honour. The punishments for their officers are likewise

of distinct kinds. The French upbraid the Germans with their provosts and their chains; the latter retort the reproach, by exclaiming against the prisons and ropes of the French; for the German officers are never confined in the public prisons. They have a provost to every regiment; which post is always given to an old serjeant, in recompense for his service; but I have never heard of their officers being put in irons, unless for great crimes, and after they had been first degraded.

These observations which I have been making, ferve to demonstrate the absurdity of condemning particular customs or prejudices, before one has examined their original causes.

After having thus explained my ideas con-cerning the forming of troops, the manner in which they ought to engage, and lastly, concerning discipline, which, if I may use the expression, is the basis and soundation of the art of war; I am to proceed now to the fublime branches. Few perfons will perhaps understand me; but I write for the connoisseurs, who, I hope, will not be offended at the confidence with which I deliver my opinions.

BOOK II.

Of the fublime branches of the art of war.

C H A P. I.

Of fortification, and the attack and defence of places.

Am aftonished that the present erroneous policy of fortifying towns, has not yet been laid aside. This opinion will probably appear extraordinary; and it is therefore ne-

cessary that I should justify it.

Let us, in the first place, examine the use-fulness of fortresses. They serve to cover a country; they oblige an enemy to attack them, before he can penetrate further; they afford a safe retreat and cover to your own troops on all occasions; they contain magazines, and form a secure receptacle, in the winter-time, for artillery, ammunition, &c.

If these things are properly considered, we shall find it most prudent and advantageous to have them erected at the confluence of two ivers; because in such situations the enemy will be obliged to divide his army into three distinct corps, before he can be able to invest them, one of which may be repulsed and defeated,

feated, before it can be fuccoured by the others. Two fides of your fortress will likewise remain always open, till the blockade is completed, which cannot possibly be done in a fingle day: neither can the necessary communication between the divisions of his army be preserved, without the use of three bridges, which will be exposed to the hazard of those sudden storms and inundations which usually happen in the season for action. — Moreover, in being thus master of the rivers, you thereby obtain a command of the whole country. You may divert the course of the river, if occasion shall require it; may be readily surnished with supplies of provisions; may have magazines formed, and ammunition, or other forts of military stores, transported to you with ease.

Where rivers are wanting, other fituations may be found, so strongly fortified by nature, that it is next to an impossibility to invest them; and which being accessible only in one place, may at a small expence be rendered in a manner impregnable; for, in general, I look upon the works of nature to be infinitely stronger than those of art: what reason therefore can we plausibly assign for neglecting to make a proper use of them? Few cities have been originally sounded for the purpose of sustaining a regular siege; but were indebted to trade for their extent, and to chance for their situation. In the course of time they increased, and the inhabitants surrounded them with walls for a defence against the incursions of their common

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enemies,

enemies, and a protection from those intestine difturbances, in which kingdoms are fometimes involved. These precautions were so far just and necessary; but what could be the inducement for princes to fortify them? Before Christianity became established in the world, and when vanquished provinces were laid waste and depopulated, fuch a proceeding might. wear some appearance of reason; but now that war is carried on with more moderation and humanity, as being by those measures productive of more advantage to the conqueror, what can be faid to justify it? A town surrounded with a strong wall, and a bulwark capable of holding three or four hundred men, besides the inhabitants, together with some pieces of cannon, will be in as much security, as if the garrison consisted of as many thousands; and I infift upon it, that the latter, notwithstanding their superiority in numbers, will neither make a longer defence, nor a more advantageous capitulation for the inhabitants, when they furrender: but what use, is it probable, the enemy will make of the place, after he has taken it? He will scarcely fortify it, but, as it appears to me, will rather content himself with a contribution, and march further. Perhaps, indeed, the opposition he may expect in taking it, and the difficulty of keeping it afterwards, may deter him altogether from laying fiege to it; for he will be afraid to trust the possession of it to a finall garrison, and unwilling to exposc

pose a large one to the hazard of being made

prisoners.

There is another more powerful reason to persuade me, that fortified cities are capable of making but a weak defence, which is, that notwithstanding a garrison is furnished with provisions for a three months siege, yet it is no fooner invested, than they find that there is hardly a sufficient quantity for eight days; because no extraordinary allowance is made, in the calculation of numbers, for ten, twenty, or perhaps thirty thousand additional persons, who have abandoned the country for the fecurity of themselves and their effects, to find refuge there. The riches of a prince are not sufficient to provide magazines for the support of a whole province, in every place that is in danger of being attacked, much less to supply the annual confumption of them; for it would even exceed the boasted virtue of the philosopher's stone to do it, without creating a famine in his dominions. ---Some may perhaps observe, that those who could not furnish their own provisions, ought to be expelled the garrison: but such an inhuman proceeding would be attended with more mifery and distress, than even the arrival of the enemy; for what multitudes are there in all cities, whose manner of livelihood would render them obnoxious to that treatment? But suppose it nevertheless to be put in execution, is it probable, that when the enemy invests the place, he will fuffer these wretches to retire where they please, and the garrison to avail itfelf

felf of their banishment? So far from it, that he will undoubtedly turn them back again; and furely the governor will not fuffer them to perish with hunger at the gates; neither can he be afterwards able to justify such conduct to his fovereign: he will therefore be reduced to the necessity of admitting them, and of course become incapable of holding out long. For suppose that his garrison consists of five thousand men; that he has provisions for three months; and that the number of inhabitants besides, amounts to thirty thousand; fuch an addition will confequently render one day's confumption of provisions equal to what fix or feven were before, and the place not remain tenible for above twelve or fourteen days: but provided it holds out even twenty, the enemy has little or no trouble in carrying on the fiege, because it must at length surrender of its own accord; and thus will all the millions which have been expended in fortifying it, be thrown away.

What I have been faying, appears to me fufficient to demonstrate the great defects of fortified cities; and that it is most advantageous for a sovereign, to erect fortresses in such situations as are strong by nature, and properly adapted to cover the country: after having done which, it will become a matter of prudence, if not to demolish the fortifications of his towns as far as to the ramparts, at least to relinquish all thoughts of strengthening them for the future, or of laying out such immense

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fums of money to fuch useless and ineffectual

purposes.

Notwithstanding what I have here advanced is founded upon sense and reason, yet I am conscious there is hardly a single person who will concur with me in opinion; so prevailing and so absolute is custom. A place situated according to my plan, may be defended against an enemy for several months, or even years, provided it can be supplied with provisions, because it is free from that detriment and incumbrance, which is unavoidably

occasioned by citizens.

The fieges in Brabant had not been carried on with fuch rapid fuccess, if the governors had not calculated the duration of their defence by that of their provisions: on which account they were as impatient for the making of a sufficient breach as the enemy, that they might be thereby furnished with a decent opportunity of capitulating: yet, notwithstanding this mutual disposition of the two contending parties towards the accomplishment of the same end, I have seen several governors obliged to surrender, without having had the honour of marching out through the breach.

It has been a remark of mine at fieges, that the covert-way is crouded at night with men, and a great fire of small arms constantly made from thence, which does but very little execution, and fatigues the troops, even to a degree of abuse.—— The soldier who has been firing all night, is naturally tired; but as his firelock

must be out of order, that part of the ensuing day which he would be glad to appropriate to rest and refreshment, he is obliged to spend in cleaning and repairing it, and in making cartridges: A circumstance of infinite consequence, and which, unless attended to, will be productive of diseases, and a general dislike to the service. -- It is towards the end of a fiege, when every thing comes to be disputed by inches, that vigour and refolution are most wanted: at which time, the greater proofs you give of those, the more the enemy will be discouraged; for diforders will then begin to spread amongst them; forage and provisions will grow fcarce, and all things feem to concur to their destruction. If, moreover, to add to their defpondency, they perceive that your refistance is still stronger, and that it increases, when they expected it to diminish, they will be at a lofs how to act, and give themselves totally up to despair.

It is for these reasons, that the best troops ought always to be reserved for desperate assairs only, and never suffered to expose themselves upon the ramparts, or to do centinel's duty in the night-time; but to be sent to their quarters again, immediately after their return from any expedition on which they have been

employed.

With regard to the fire which is made by the befieged from the covert-way and the ramparts upon the workmen during the night, it amounts to little more than fo much noise:

for

for the foldiers, to avoid the trouble of ramming down their charge, take the powder by handfuls, pour it loofe into the barrel, and put the ball in after it; and as, by constant firing, their shoulders are become painful to them, and the obscurity of the night likewise prevents the officers from seeing what they do, they only place the muzzles upon the palisades, and fire at random.

It is much better to raife, towards the close of the day, some barbette-batteries *, either in the covert-way, or upon the ramparts, and draw a line with chalk, to direct their fire in the night-time towards the proper object, removing them again at break of day. These will do infinitely more execution than the fmall arms, because they will make way through gabions and fascines; the balls being as large as walnuts, will fcour the whole breadth of the trenches, and by rolling and bounding a ricochet, will go far beyond the port of musketry: they will make dreadful havock amongst the workmen, and those who serve the batteries; neither will the enemy's cannon be able to difmount or filence them. Twelve pieces planted after this manner will require no more than thirty-fix foldiers, and twelve cannoniers to work them; and, I am persua-

^{*} These batteries are raised about four feet higher than the terre-plein, so that the guns may be just high enough to fire over the parapet. The French have named them batteries en barbe, or en barbette, because the ball, in its passage out of the cannon, shaves, as it were, the grass from the upper talus of the parapet.

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ded, will do more mischief than a thousand men posted in the covert-way. Besides, your troops are, during all this time, at rest, and will, the day after, be in condition to be employed on any kind of service.——It may be objected, perhaps, that the consumption of powder will be very much increased by this method of siring; but the soldiers with their small arms waste more in the night-time, than they use; and if ammunition is scarce, the number of guns upon these batteries may be accordingly less. The advantages resulting from it will be very considerable, in that your troops will be exposed to less fatigue, and consequently be more free from disorders; for nothing occasions them so much as night-duties.

I shall make one observation in this place, which is, That all the ancient fortifications are absolutely good for nothing, and the modern ones are not much better, as shall be demonstrated at the end of the succeeding chapter.

—The King of Poland * has formed an admirable plan of fortification; but as the present construction of places is founded upon a different system, and we are compelled to make use of them as they are, I shall therefore only endeavour to remedy their most glaring defects. And amongst many, that of all the out-works, for example, being scarped at the gorge, is far from being the least; in order to remedy which, it is necessary to contrive an easy communication with them, so as to have

^{*} Augustus II. the Marshal's father.

power, when they fall into the hands of the befiegers, to affail them fword in hand from behind; for after they have made a lodgement in them, the number of men which they leave to keep possession is but small, because their covering party and pioneers are obliged to retire: if therefore you command access to them, and attack them afterwards with a superior force, you must undoubtedly dislodge them; and before they can renew the affault, their lodgement will be destroyed. This you may be able to accomplish with fafety, because you will not be exposed to any interruption from the fire of their batteries or trenches. They will thus be obliged to make a fresh attack, in which they must lose an infinite number of men, because it will be necessary for them to affail it with a large force. When they have again carried the work, and their parties are retired, you are to repeat your fally, and difpossess them as before. Nothing can be more destructive and discouraging to the besiegers, than this method of proceeding with them; and the advantage, moreover, will remain always on your fide.

All works that are scarped at the gorge, are irrecoverable, after once they have been carried, from the difficulty of their access, the security of the enemy, and the impracticable-ness of attacking them; for as they have only a small passage, and frequently a stair-case, so narrow as to admit but one man at a time, the assailants from the garrison will be destroyed as

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fast as they appear: they must of necessity, therefore, be totally abandoned, when once the enemy has got possession of them; because to attempt to retake them afterwards, is only facrificing the lives of your soldiers to no manner of purpose.

What I have been faying is sufficient to make it appear, that the besieged have no opportunities more favourable to them, for distressing the enemy, during the course of the siege, than those which are furnished by their own works, so long as they can keep up an easy

communication with them.

Many people imagine, that when once a breach is made in a work, it must be abandoned, as being no longer tenible. It is certain indeed, that, in such a case, one can fcarcely be able to prevent the enemy's making a lodgement therein; but he may be driven out again, and fo reduced to the necessity of making a fresh affault; which he may, in like manner, be repeatedly obliged to do, because the befieged will always have the advantage in maintaining it, and must destroy vast numbers at every attack. The only effectual expedient the enemy can fall upon, is to blow it up; which will probably not occur to him for some time, and until he has miscarried in every other attempt. But if, where the ditches are dry, the works are countermined in fuch a manner, as to have the gallery carried quite round them, he will not be able to avail himfelf of the mine, so long as the besieged remain

main in possession of them, because if he digs deeper than they have done, he must come to water.—— Upon the whole, mines are productive of more dread than real mischief, and are generally discovered, and their effect prevented.

Large works are the most serviceable; for fmall ones are capable of but little use or refistance, because they are so soon ruined and destroyed. There is a very good way, in wet ditches, of retarding the construction of the gallery over them; which is, by having large boats covered with thick planks, and filling them with armed foldiers: it will be impossible that it can be carried on, fo long as the workmen continue exposed to certain destruction from the party posted in these boats, which will always approach quite close to them before they fire. Being made musket-proof, the enemy's fmall arms will have no effect upon them; in consequence of which, they will be obliged to raise a battery at the saliant angle of the ditch: but, after a few fires, that will cease to be formidable to them, as they can prefently get under cover, and the cannon can do but very little mischief in plunging. -- There are no practicable means of obstructing the passage of the ditch, but by the use of these boats, unless holes are made through the revetement, and guns planted behind it to fcour the furface.

C H A P. II.

Reflections upon war in general.

S I take objects just as they occur to my imagination, so the reader must not be surprised at my quitting the subject of fortification in this place, to refume it in another; for it appeared to me necessary to make the following digression, before I entered into a more minute and circumstantial account of things.

Many perfons are of opinion, that it is advantageous to take the field early; in which they judge very properly, provided there is any important post to be seized, or enterprise to be executed, which may require it: but otherwise I am far from concurring with them, and think there is no occasion for such precipitate measures; but, on the contrary, that it is even prudent to remain in winter-quarters much longer than the usual time. The enemy's being suffered to lay fiege to a place is of no fignification, because he will thereby only weaken and dispirit his troops; and if you fall upon him towards the autumn with an army well disciplined, and in good order, he must infallibly be ruined.

I have always remarked, that a fingle campaign reduces an army one third at least, and fometimes one half; and that the cavalry in particular is in fo wretched a condition by the

beginning

beginning of October, as to be no longer able

to keep the field.

I would therefore continue in quarters till about that season of the year, harassing the enemy in the mean while with advanced parties and detachments, and, towards the end of a laborious fiege, attack him with my whole force; at which time I should have considerably the advantage, and foon oblige him to make his retreat: but as even that would be difficult for him to execute in the presence of an army like mine, quite fresh and in vigour, he would probably be reduced to the necessity of abandoning his baggage, artillery, and some part of his cavalry; the loss of which would prevent his making so early an appearance in the field the ensuing year, and render him a-fraid perhaps, if not incapable, of doing it at all. This may be accomplished within the space of a single month; after which you return to quarters, with your troops in good order, as well as spirits; while those of the enemy are depressed, and ruined. It is moreover the time of harvest, when the barns will be full of grain: having therefore gained a fuperiority in the field, you may march into the enemy's country, and there subsist your army during the winter; which feason of the year is far from being so destructive to troops as is generally imagined. I have made feveral winter-campaigns in very fevere climates, when both the men and horses continued in better condition than in the fummer: for those who

are subject to no disorders, have no occasion to be particularly apprehensive about any on account of the time of year, unless it should be attended indeed with more than usual seve-

rity.

Such fituations are to be found as will admit of cantonments for a whole army, and in which it may be very fecure from being infulted by the enemy, provided the disposition is judiciously made, and a proper communication preserved between the posts. Provisions will not be wanted for present consumption, but some management is required in the me-thod of procuring supplies for suture exigen-cies. An experienced general, so far from maintaining the troops under his command at the expence of their fovereign, will, by raifing contributions, fecure their subsistence for the enfuing campaign; fo that, being well lodged, clothed, and supported, they will consequently be easy, contented, and happy. - In order to accomplish this, it will be necessary to fall upon a method of drawing supplies of provisions and money from remote parts of the country, but without fatiguing thereby the troops too much. Large detachments are exposed to the danger of being cut off by the enemy; are likewise detrimental to the service, and rarely productive of those advantages which are expected from them. The best way is, to transmit to those places from which contributions are required, circular letters, threatening the inhabitants with military execution,

cution, on pain of their refusal to answer the demand made from them; which ought at the fame time to be moderate, and proportionable to their feveral abilities: after which, intelligent officers must be selected, and de-tached with parties of twenty-five or thirty men, allotting to each a certain number of villages, and giving them strict orders to march by night only, and not to plunder, or commit any manner of outrage, on pain of death. --- When they arrive at their appointed places, they must send a non-commissioned officer and two men in the evening to the chief magistrate, to know if he is prepared to take up his acquittance, which will be given under the hand and feal of the commander in chief of the army. If he answers in the negative, the commanding officer is not thereupon either to plunder the place, or to take the fum required; but must discover himself and his party, fet fire to some detached house, and afterwards march away again, threatening at the fame time to return, and burn the whole village.

All these parties are to be assembled at some rendezvous before they are dismissed, where a strict inquiry must be made into their conduct, and those who are found guilty of the least rapine be hanged without mercy. If any officers likewise are convicted of having taken or received money from the villages, they must be punished with death, or cashiered at least. But if, on the other hand, it appears,

that they have properly executed their orders, they must be rewarded accordingly. This method of raising contributions will thus be foon rendered familiar to the troops, and all the places that have been summoned within a hundred leagues in circumference, will not fail to bring their stipulated quantities of provisions and money; for the calamities they have been threatened with in case of their delay, will augment their fears to fuch a degree, that they will be very glad to purchase their fecurity by discharging the demand made upon them, notwithstanding any prohibitions which may have been iffued by the enemy to the contrary.

Twenty parties detached monthly will be fufficient to accomplish the whole affair: neither will it be possible for the enemy to discover them, notwithstanding his most diligent endeavours for that purpose, provided they make use of the proper precautions on their march, and adhere to their instructions.

Large bodies of troops detached on these duties, incompass in the execution only a small tract of country, and spread distress in every place where they appear: the inhabitants conceal their cattle and effects from them, and can hardly be compelled to furrender up any thing; because they are very sensible, that their stay can be but short; and that as they take care to fend the earliest intelligence of their fituation to the enemy, he will foon relieve them; a circumstance by which such large

large parties have frequently been obliged to retreat with all the expedition they could, after having totally miscarried in their undertaking, and left feveral of their men behind them: but, even when they meet with no interruption from the enemy, the commanding officers, either influenced by fear, necesfity, or felf-interest, generally enter into some composition with the inhabitants, and return with only a small part of what was demanded, and with the troops much haraffed, and out of condition.

This is the usual consequence attending this method of raising contributions; while, on the other hand, that which I have been proposing cannot fail of fuccefs.

In order, moreover, to render the payment as easy as possible to the inhabitants, they must only be required to make it monthly, in such shares and proportions as the commander in chief shall appoint: in consequence of which indulgence, added to their apprehensions of having their habitations burnt, unless they comply therewith, they will affift one another, and be able to advance the whole with much less inconvenience and distress; those who are at the greatest distance disposing of their properties, in order to bring their respective contributions in money, and those which lie contiguous furnishing theirs in provisions.

These parties must either be very unfortunate indeed, or else very imprudently conducted, if they fall into the hands of the enemy;

R 2 because,

because, with twenty-five or thirty men on foot, one may traverse a whole kingdom with fecurity. When they find themselves discovered, they must immediately march off the ground; for the enemy will be deterred from pursuing them far, particularly in the night-time, by the apprehension of falling into an ambuscade; a circumstance which might very well come to pass, especially when several of the parties have agreed together upon certain places appointed to affemble at, in case of fuch accidents.

Nothing can be more entertaining than these incursions, and the foldiers themselves will

certainly take pleafure in them.

This puts me in mind of my being attacked, in the year 1710 *, by a party of French, between Mechlin and Bruffels; three days after which, another, confisting of fifty men, entered Aloft, which is five leagues from Bruffels, at noon-day, and carried off my baggage. I was likewise very near being taken prisoner myself, notwithstanding there were, at the very moment in which this happened, fifteen hundred men at the gate of the town waiting for their billets, that were making out at the magistrate's.

It was dangerous to go by water from Bruffels to Antwerp without a pass, or even to walk in the suburbs of any place, without the hazard of being carried off by the enemy. Al-

^{*} The Marshal was at that time a voluntier in the allied army.

though it was now the depth of winter, and the allies were masters of all Flanders; of Lisle, Tournay, Mons, Douay, Ghent, Bruges, Oftend, and all the barrier-towns, and had an hundred and fifty thousand men disperfed in these different garrisons; nevertheless, the French partifans plundered the whole country; an example which sufficiently proves the possibility of what I have been advancing in regard to parties, and at the same time confirms me in my opinion of the success that

must infallibly attend them.

The princes that have made war in Poland would never have ruined their armies, if they had had recourse to this method of carrying it on. If Charles XII. had not entered Saxony, he must have been undone. Those who saw the Swedes at that time, will concur with me in the reality of this. If Gustavus Adolphus had taken possession of proper posts, and sub-fisted his army in the manner I propose, he might have supported himself in this kingdom during his whole life, and have even been able to augment his troops in it at the fame time: Which perfuasion of mine, has induced me to draw the following plan of operations for the use of any power that may be engaged in a future war with it.

A description of Poland, together with a scheme for carrying on a war with that republic.

Poland is an open and extensive country, without without fortified towns, well peopled, and abounds in grain, cattle, and all the necessaries of life. It has plenty of wood, a number of large rivers, all which are navigable, and great sums of money. The air is wholesome; it is entirely free from those disorders which are peculiar to other climates; foreigners enjoy as good health in it as the natives; and it is altogether adapted by nature for the seat and support of a war.

The Polanders make war in fuch a vague and irregular manner, that if an enemy makes a point of pursuing them, he will thereby be presently rendered incapable of opposing their continual inroads. It is much more prudent, therefore, not to pursue them at all, but to possess himself of certain posts upon the rivers, to fortify them, to erect barracks for his troops, and to raise contributions throughout the provinces, in the manner I have above recommended.

The whole kingdom united is not in a capacity to take a well-palifaded redoubt; for it is furnished with no artillery, no ammunition, nor even any of the materials which are necessary for a siege: and it is, moreover, impossible that it can ever be otherwise, so long as the government remains upon its present establishment. The reality of this, is what no body that is at all acquainted with the matter, will dispute. But although they were even supplied with all kinds of warlike stores, they would not keep them for any continuance.

As the country is very open, and the national troops belonging to it confift entirely of cavalry, all the powers which have made war upon it, have therefore imagined, that cavalry was the only proper force to be employed in it. This notion of theirs exposed them to the unavoidable necessity of perpetually changing their fituation, in order to be able to fubfift; and of frequently dividing their army, and detaching large parties to procure provisions; which the Polish horse, being extremely light, attacked upon their march, and although they did not defeat them, yet, by continuing to pursue them, and seizing every opportunity to repeat their insults, they consequently harassed them to a very great degree, and in the course of time ruined them. But in order to give an idea of their method of fighting, the follow-ing relation of two affairs, which happened during the last war between the Saxons and Polanders, will not be unfeafonable.

In the year 1716, a part of Poland suddenly took up arms, in order to drive the Saxon troops out of the country, which were at that time dispersed about in different provinces. The crown or republican army, confifting of twenty thousand men, invested the village wherein the Queen's regiment of horse was quartered, which furrendered upon terms, without making any manner of defence, and was a few hours afterwards cut to pieces in cool blood. After this massacre, they attacked two regiments of dragoons, who, having had intelligence of it, were on their march to join the other Saxon troops: these, dreading the consequence of capitulating, from the treatment which had been shewn to the Queen's regiment, not only defended themselves with obstinacy, but totally deseated the whole Polish army, and took above twenty pairs of kettle-drums, together with great numbers of standards and colours. This action happened near a village called *Tornos*, between Cracow and Sendomir, under the conduct and com-

mand of M. de Clingenberg.

At the time when these affairs happened, I was on my march to Jarislaw in Lithuania, in order to affift in extinguishing the flame which was burfting out in that quarter; and having left a party of eighty horse at Jarislaw, to receive fome contributions which were due from thence to the troops, the confederate Polanders invested the place, (which is a small town furrounded with a weak rampart), made three general affaults, and were repulfed at every one. At the expiration of fifteen days, the commanding officer of the party, whose name was Heckman, having confumed all his provisions, offered to treat about the surrender of the place; and, after a great many meffages backwards and forwards, he was allowed to march out with all the honours of war, and a waggon, in which he had forty thousand crowns: An object very tempting to the Polanders, who nevertheless suffered him to pass; but, after two days march, detached eight hundred

dred horse in pursuit of him, who soon overtook him: there he engaged for fix days, without discontinuing his march, and at length joined me near Warfaw, at the distance of a hundred leagues from Jarislaw, with his waggon that contained the money, fixty-eight of his men, and two pairs of kettle-drums which he had taken on his march, without ever fuffering himself to be broken, and having only lost fixteen men during all his different engagements. This account may perhaps appear fabulous, but it is nevertheless totally genuine; and I could also produce several other of the like instances, but imagine these will be sufficient to furnish a proper idea of this people,

and their method of fighting.

It becomes therefore no longer furprifing, that those who have carried on war against the Polanders, should be obliged to separate their troops, and to make continual, and very often forced marches, to be able to overtake them; and fometimes even to procure the necessary fupplies of fubfistence: all which is, notwithstanding, attended with nothing but loss and disappointment; for they are so extremely light, as frequently to march thirty, and fome-times forty miles in a day in large bodies; and, by the means of fuch expedition, fall upon you, before it can be possible for you to receive any intelligence of their approach, or be prepared to receive them.

The only effectual scheme for their reduction is, to avoid pursuing them, and to secure

those posts which are properly situated, from whence one may be able, by parties of infantry, to subject the whole country round about to contribution. As there is abundance of wood upon it, one may as well, if I may be allowed to make use of the expression, seek for a needle in a bottle of hay, as endeavour to find out these parties; and although they are discovered, the only confequence is their being exposed to the distant fire of small arms: but unless they enter the villages by day, and loiter away their time in drinking, it is almost certain, that they will perform their expedi-

tion without being even perceived.

The Polanders will foon abandon the country contiguous to these posts, induced thereto by this new and unufual method of carrying on the war against them, as well as by the extreme dread they naturally have of infantry; the fear of being furprifed by which, will prevent their taking post in towns; an event they have no manner of occasion to be apprehenfive of from cavalry, both because it is heavy and imbarrafling in itfelf, and that it is impoffible also for it to keep the field without being discovered by the priests, and others of the country-people, who would immediately afterwards carry the intelligence, with all the hafte they could, to their own party; infomuch that you might take it for granted, that you would be conftantly attended on your march by those who only waited for opportunities

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nities of expeling you to difficulties, and pick-

ing up your stragglers.

The proper posts to be secured, are as follows. In the first place, the point of Werder, near Marienburg, where the river Vistula or Weisel divides its course; by the possession of which you become mafter of Polish Prussia; of Werder, a rich, plentiful, and well-peopled country; of Dantzick, Elbing, Marienburg, and Koningsburg, in your rear; all which are places that, in a manner, fwarm with Germans; that abound with merchandise and artificers, and that will supply you with good recruits. Koningsburg and Dantzick are two port-towns, where great numbers of ships arrive from all parts of Europe, by means of which you may be eafily furnished with officers, and all forts of military stores, (the last of which are very scarce in Poland), and at the fame time render the procuring of them very difficult to the enemy.

The natural fituation of this post of which I am speaking, is vastly strong and well adapted for defence. The Weisel runs large in this part, and forms almost an island of it; for the fortress which should be built upon it, would be accessible only by a very narrow neck of land, two leagues in length; to make any attack by which, would be only throwing away a great many lives, without any manner of effect. Two small forts, one erected upon the right, and the other upon the left of the river, would render the investing of the place

in a manner impracticable to the Polanders; because it would be absolutely necessary for them to have three large bridges of communication; which is a piece of work far from being easy to execute, not only by them, but

by any other power more capable.

These forts would soon be erected; for Poland is the best country in the world for the expeditious construction of fortifications: the foil is foft, and there is great plenty of firs, which are palifades ready made in a manner, little more being required than just to cut them down, and to plant them. They are in general a foot in diameter, and sometimes more, which will render them more difficult to be demolished by the enemy. The caserns being made of this wood, will be extremely wholesome and warm in winter; and as the walls of them are likewise to be composed of it, they may be raifed in a very short space of time, and without expence; as may in like manner magazines, fouterrains, &c. because hatchets will be the only instruments required, and the foldiers themselves will be capable enough to erect them, especially if superintended and directed by officers of some ingenuity.-But I shall take another opportunity to treat of the construction of these works.

I should leave 5000 men in this post, which would be a sufficient number to secure the possession of it; and from thence proceed ten leagues, where I would take post again upon the Weisel at Graudents. This is a small city,

fituated

fituated on an eminence in a marsh five or six leagues in circumference, and the road to it is only by a causey, which must consequently render it a very tenible and strong post. Here I would station 1000 men; and then move into an island which is formed at the junction of the Bug with the Weisel near Thorn, where I would erect a post for 5000 men. The situation of this place makes it of infinite importance; for the Bug is a large navigable river, upon which all the trade of Lower Lithuania is carried on.

From hence I would march to Janowiecz, leaving 1000 men there; and after that, to where the river Sonna falls into the Weisel near Sendomir; erecting in this place a post to be occupied by 5000 men. The Sonna supports the commerce of a part of Polish Prussia, which is a considerable addition to the natural strength and advantage of this situation.

One thousand should be posted in an island lying between Sendomir and Cracow near Soles*; five thousand in the city and castle of Cracow; one thousand at Zamoscie, upon the left of Sendomir; and five thousand at Limberg. At Bransaliteski, one thousand; the situation of which post renders it impregnable. Five thousand at Pintschow; one thousand at Zideswiloss; one thousand at Dolhinow, upon

^{*} This feems to be the Polanietz in the last Berlin map of Germany, and the Polaiez in that of Moll.

the river Wilia; five thousand at Kowno; which is an incomparable post, and as strong as any I have ever met with; it commands the two rivers that join contiguous to it, and which afterwards continue their course together, till they fall into the Curische-Haff. Six thousand must be also posted at Posnan in Great Poland.

The whole country would be fo effectually covered by this disposition, that it must infallibly be reduced to the necessity of submitting patiently to the yoke; and the number of troops, moreover, required to form it, amounts to no more than 48,000 foot, besides 3800 horse. Two campaigns would be sufficient to complete this conquest; neither would it be attended with any manner of expence to the conqueror, because he might raise large contributions, which, by demanding only small fums from individuals, would be paid without distressing the country. A calculation has been made, that the payment of a timpfe (which amounts to fifteen pence in French money) for every tun of beer that is confumed in Poland, would produce a fund fufficient for the support of 350,000 men; from which one may form an idea of the greatness of this kingdom, and the number of its inhabitants.

I am moreover perfuaded, that this conquest might be made, without even fighting a single battle: for the troops, instead of being continually engaged in pursuits and marches, should be employed in fortifying and improving the

works

works of their respective posts: and there being, as I have before observed, great abundance of wood in every part of the country, one might erect fuch works as would furpass the best reveted places in strength. After having therefore once established these posts, which I can foresee no sufficient obstacle to prevent, I should despife the combined force of Poland, and likewife that of all fuch other powers as might undertake to relieve it. By the command of the rivers, I should be enabled to furnish my posts occasionally with provisions; and an enemy would hardly penetrate into the country, and leave them behind him; because he would thereby expose himself to great inconveniencies. From whence could he procure the necessary supplies of all kinds, for the fervice of the war, and the subsistence of his army? The interior part of the country could not possibly support him long; which having foon exhaufted, he would confequently be thereby obliged to change his fituation. But what course must be take, or which way turn his arms, unless it be to lay siege in form to these forts, the reduction of which nature and art have conspired to render impracticable?

In short, neither the Tartars nor Turks would be capable of preventing the conquest of the kingdom under these circumstances; for it would require all the forces and wealth of France, England, and Holland, united. The Turks are the richest neighbours of Poland;

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but they are notwithstanding less formidable than the Russians.

Although I have faid, that forty-eight thoufand men would be a sufficient force to subdue all Poland; nevertheless, what is there to prevent my having an hundred thousand, if neceffary, after I have once established myself? Is not the country both able to furnish, and to support such an augmentation? Or, must it be objected against, because it will be composed of Polanders only, as if by nature one man was not as good as another? It is discipline and skill which alone constitute precedency in armies; and those who imagine, as I have before observed, that the Roman legions confifted entirely of Roman citizens, are much mistaken in their opinion, because they were recruited from all nations. One and the fame discipline was ordained for the whole; which being good in itself, consequently rendered the troops so, that had been inured to the practice of it; and that more especially, when they were conducted by men of abilities.

Troops may be raised in Poland with as much facility as contributions, nothing more being required than to demand a man per parish or village: but as soon as they are delivered, the marks of the particular centuries to which they are severally appointed, must be fixed upon them, that they may be readily known upon occasion. This will be the means of preventing their desertion, because neither their own parishes, nor any other places will

be able to afford them fecurity: but in order to mitigate the evil to which they are thus exposed, let their time of service be limited; in which case, one ought to abide by the agreement made with them.

In time of war, it will be impolitic to enter into any kind of conference with the inhabitants; for the fole view on their fide will be to trifle with you, to deceive you, and to free their country from contribution. The true fecret to subdue them, is, to listen to no overtures from them; and, above all things, to avoid accepting of their troops, which are good for nothing but to imbarrass you, and will be subject to all forts of irregularities in their quarters. At first, tempted by the prospect of advantage, they will offer their service to you in crouds; but as foon as they perceive themselves disappointed in their expectations, they will throw off the mask, and so leave you to repent the having furnished them with means of plundering their own country; which they are always ready to do, without the least remorfe or re-luctance.—But you, moreover, become acceffary, in a manner, to your own destruction, by confenting to incorporate them in your army: for when it comes to action, they will foon turn their backs, and, leaving intervals in the ranks, will thereby unavoidably diforder your own troops; instances of which kind we have but too frequently experienced.

With regard to artillery, it is necessary to be furnished with a large stock of iron fixpounders,

pounders, which in Sweden are good, in great quantities, and very cheap: the carriages for them may be also made there, and the whole, when completed, be from thence transported

upon the Weisel to the different forts.

After having erected these posts in the situations already described, it will be no difficult task to bring the inhabitants to your own terms, because you will have it in your power to put a stop to all manner of communication and intercourse between them. You may threaten them with confiscation of their lands, unless they furrender themselves up within such a limited space of time; which, together with any other methods that may be made use of to accelerate their reduction, cannot fail of the defired effect; for finding themselves surrounded, and exposed to distress from all quarters, they will be very ready to submit. You can therefore offer what terms of accommodation you please; can impose your own laws, and see them carried into execution.

Thus I have made it appear, how practicable it is to subdue this republic in two or three campaigns at most, with a small army, and at a trifling expence; and possibly the situation of affairs may one time or another render such a project necessary.

But I do not intend to leave this subject, without returning to that of fortification, and describing the method I most approve of for the construction of these posts. My system is founded upon that of the King of Poland's,

which

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which appears to me preferable to all others; and is certainly particularly well calculated for this country, which, as I have already more than once remarked, has great plenty of wood; add to which, that fuch fortifications will be attended with no expence in erecting, may be fecured from the infults of an enemy in a few days, and in a month rendered capable of suftaining a long siege.

In treating upon the fucceeding subject, I shall adhere to the rule that I have prescribed for myself in the course of this work; which is, first to expose the errors and defects of the present practice, before I recommend any

change or innovation in it.

Although we excel the ancients in fortifications, yet we are far from having arrived at that perfection, which this branch of the military art will admit of.—With regard to myfelf, I am not so vain as to think that I am possessed of any uncommon share of knowledge in it: nevertheless I am not to be imposed upon by the exalted names of Mess. de Vauban and Coeborn, who have consumed immense sums in the fortifying of places, without having made any addition to their strength; at least, any that was material, or proportioned to what might have been expected, as is evident from the circumstance of their being taken with so much ease and expedition.

We have modern engineers, so obscure in themselves as scarcely to be known, who have notwithstanding profited by the errors of those

Γ₂ two

two mighty masters, and are infinitely superior to them; but who at the same time only hold the medium, as it were, between the deficiency of their practice, and that point of perfection which one should endeavour to arrive at.

Without entering into a miferable detail of all the little works which they have invented, I shall at once discover the capital defect of

their fystem.

They have erected their fortifications in a kind of amphitheatre, in order to be able to fire from every part of them, as if the besieged could make use of a retired work, so long as their own troops occupied another immediately before it. To what purpose therefore are they raised so high? the consequence of which is, that being thereby fo much exposed, the enemy destroys them as soon as he has finished his fecond parallel, and erected his batteries: a day or two are sufficient to do it. Thus then are all your defences ruined; your cannon is difmounted, and this boafted fortification rendered incapable of obstructing the besiegers; for their batteries being low, and firing at an elevation from the horizon, must raze and demolish every thing. As the besieged are therefore discouraged, and afraid to shew themfelves, the enemy carries on his approaches very fast, and soon arrives upon the glacis. At the covert-way he perhaps meets with fome difficulty and obstruction; but, as it is only defended by works that have been already much damaged, he foon renders himself master of

it, makes lodgements, and raises batteries in it, which totally ruin the defences of the place. If there are any low flanks, batteries are erected upon the faliant angles of the ditch, because that being parallel with those flanks, and they moreover very narrow and confined in front, they are prefently destroyed. Where there are casemates likewise, they are stopped up, and the embrasures are in a short time ruined by the artillery. Thus the befieged are no longer in a capacity to prevent the enemy's paffage over the ditch. -- With regard to a breach, it is foon made in a work, let it be ever fo high or formidable; after which the befieged have little more to do, than to withdraw their troops, and to give it up; for as it is scarped at the gorge, and has only a staircase, or narrow passage into it, it is impracticable to attack it again, when once taken; and this difficulty of access, at the same time that it renders it irrecoverable to them, ferves to fortify and secure the besiegers in it; the party fent to possess themselves of it is but small, because the enemy knows it must be abandoned; and as the defences behind it are levelled and destroyed, they lodge themselves in it without any opposition or loss; instead of which, if the communication between it and the main body of the place was easy, he would be obliged to fend a very large force, to make a confiderable lodgement, and to fustain a great many affaults in the maintaining of it, which would be attended

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tended with the destruction of great numbers

of his troops.

These defects having been in part discovered, the grazing fire * was introduced, in order to remedy them; but the original imperfection of this plan of construction is such, that the inconvenience must always subsist: for if from the body of the place you see into the country, and upon the glacis, over your advanced works, the enemy must consequently command as good a view of you, if not a better; and although he does not ruin all your defences there, yet he at least prevents your being able to make use of them; which it is moreover impossible for you to do, without destroying your own troops, so long as you have any in the out-works before them. what purpose is it therefore, to have a prospect upon the glacis from the body of the place, fince it can be ferviceable in no other respect, than to defend those works which are immediately before it? for while you remain in poffession of the out-works, you are prevented, as I have just above observed, from firing upon the glacis; during which time, the enemy has the advantage of playing his batteries from thence, to level both your detached defences, and those of the main body of the place. If, on the other hand, its fortifications were lower, the befiegers, in order to destroy them, would be obliged to erect fresh batteries against every distinct work, which would prove no

^{*} See plate 8. fig. 19.

eafy task in the execution; especially if the works were less spacious in proportion as they were further advanced towards the country; and constructed in such a manner as to have communications by which they might be easily attacked again, after they have been carried by the enemy. But in order to convey a more perfect idea of my proposed method of fortisication, I have annexed a * plan and profile of it, to which I shall refer the reader. The erecting of an entire fort, is no more than a month's employment for one legion, as will appear by the calculation that is made in the

fucceeding part of this chapter.

When the enemy attacks me, he will, as ufual, carry my covert-way, and destroy the defences of my counter-guard and lunettes; yet as long as I have my casemates free in the re-entering angle of my counter-guards, how will he be able to pass the ditch, in order to affault them? Perhaps it may be answered, that his batteries will destroy them: but that is far from being so easy to accomplish as might be imagined; for he will not be able to plant above two or three pieces of cannon upon the faliant angle of the counter-scarp; and, in carrying on his approaches against the batteries of my casemates, he must sustain a continual fire of an hundred, from the bottom of the ditch, and the faliant angles of my counter-guards and lunettes: will it be therefore practicable for him, exposed both night and day to so

^{*} See plate 6. fig. 20. and plate 8. fig. 21.

dreadful a fire, which it will moreover be impossible for him to put a stop to, to erect his

gallery over the ditch?

It is a maxim in engineering, That one cannot command any fituation without being at the same time commanded by it; which principle has been hitherto strictly adhered to; without reflecting, that the business is, to oblige the enemy to expose himself in places where there is but little ground to occupy; where he can be overlooked by a larger front than he is able to withstand; and where it is moreover impracticable for him to erect any batteries in his defence.

All this I am enabled to accomplish by means of my open casemates; for I command the ditch, and there is no possibility of his raising a battery to play upon, or dismount either those which are thus planted upon the surface of the water, or those of my ravelins, because they are covered by my counter-guard. I can moreover repair in the night-time all the damage that may have been done to my casemates; and in case they are blocked up with rubbish, my cannon itself will be sufficient to open a way through it.

As the passage of the ditch is by these means rendered impracticable to the enemy, his only resource is to fill it up; but I shall likewise presently destroy that work, as well as any batteries which he may have raifed upon the

faliant angles of the ditch.

These floating batteries of mine, represent-

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ed in plate 2. fig. 22. are capable of very great use, and fire with prodigious exactness. It is hardly possible to lose a single man in ferving them, otherwise than by accident; and the guns being under cover, are consequently

pointed with attention and care.

The peculiar method of constructing these casemates * is such, that they are infinitely more difficult to ruin than the arched kind, because that the cannon can only affect the first and second beam; that the others, which it cannot reach, always support the terre-plein; and that the length of them, in proportion to the breadth of the embrasure, is such, that those which are cut bear the weight of the earth; because this weight, which rests upon the two ends, prevents their bending either in the centre, or the place where they are cut; whereas, with regard to the arched casemates, one has nothing to do but to fire at the keystone, and the whole must presently fall to ruin.

I have moreover invented a method to prevent the enemy from being able to fee the cannon of my batteries, till the moment in which they are fired; a figure of which is represented in plate 6. fig. 23. Two or three men to a gun are fufficient, who are at the same time sheltered from the artillery and ricochet-firing of the besiegers by means of my traverses. They will be of great use in the covert-way, to

^{*} See plate 5. fig. 24. & 25.

ruin their batteries in the day-time, and, during the night, to fire grape-shot at the head of their approaches. With each of these guns I also plant ten amusettes, to keep up a continual discharge into the embrasures of their batteries; which, as they will pierce, at the di-flance of 1000 paces, all the mantlets and blinds in their way, will, I am persuaded, render it at least extremely difficult, if not impossible,

for the enemy to ferve their cannon.

But let us suppose that the besiegers have passed the first ditch, and made a lodgement upon the counter-guard; he will there, all of a sudden, discover a vast number of guns planted en barbette, which will fire upon him on every fide, in a fituation where it will be impoffible for him to erect batteries to defend himfelf, and where he will be exposed to the defences of my ravelins, which as yet will not have fustained the least damage. In what manner therefore can he avail himself of the possession of this work? For, having only a foot or two of earth above the beams, and being likewise overlooked by two large faces, he will never attempt to bring any artillery into it. Will he plant two pieces of cannon upon the faliant angle of the counter-guard, to difmount forty-four that are upon my two faces, together with the 440 amusettes, which command him, and force a passage through all gabions, sand-bags, and blinds, that are opposed against them? Where then will he be able to raise his battery? for the passage of the ditch will remain remain impracticable to him, till he has first made himself master of my casemates. Perhaps it may be observed, that, by setting the miner to them, they may be ruined: but it will be found otherwise in the execution. The only expedients therefore which feem to remain, are, either to fet fire to them, or to destroy the piles under water; both which are

equally as impossible.

But even suppose that he has made himself master of my casemates, I shall soon demolish them with my floating batteries: he will then have only a part of the parapet remaining; and in order to raise batteries, he will be reduced to the necessity of bringing earth from a great distance for their foundation, which is a work that must be attended with no small difficulty and inconvenience. --- Nevertheless, let us even suppose him to have surmounted it; for affiduity and time, according to the proverb, will accomplish every thing: yet I infist upon it, that he will be obliged to fill up the front of two entire polygons, and the ditch of the counter-guard, (for which even the total demolition of it will not furnish sufficient materials), before he can be able to erect his batteries; from which one may form a judgment of the difficulty that must attend the construction of them: and after having accomplished all this, how can he pass the ditch, in order to attack my ravelins? for my guns, which he will never be able to difmount, four the faliant angle, —But suppose that he has even **fu**cceeded U 2

fucceeded fo far as to have made a lodgement in one of these ravelins, how will he maintain himself in it? He will find himself all at once quite open and exposed to the fire of an entire polygon; in the ditch before which I can likewife post three or four battalions, sword-inhand, which it will be impracticable for him to oppose with an equal number, or even with two battalions, let his lodgement be ever so advantageously effected; which battalions will moreover be obliged to enter by files through the breach, and must be destroyed as fast as they advance by four or five pieces of cannon loaded with grape-shot, that scour the passage from the adjacent flank. I shall be under no apprehensions concerning the success of my fallies; for, provided they are repulsed, they may retire to the foot of the body of the place, where all my troops will be fecure under arms, and from whence the enemy will be exposed to a very fevere fire.

I have always had in my head the idea of a certain work, that was taken and retaken at the fiege of Candia thirty-fix different times, and which cost the Turks above 25,000 men; a circumstance that has given me a great opinion of such works, whose construction will admit of their being attacked, and recovered, after they have been lost. There are no opportunities, during the course of a siege, more favourable to the besieged for engaging the enemy, and retarding his approaches, than those which are furnished by works of this kind; because the

former

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former are exposed to no danger from without, at the same time that the latter is always obliged to enter by the breach; and if he brings any cannon into them, he is sure to lose them.

In short, I am inclined to think, that the attack of a fort constructed upon this principle, would not a little diminish that rage for sieges which prevails at present.—One should at all times endeavour to have a wet ditch, if possible, to prevent the enemy from being able to make his passage by the sap, or in any other manner than by galleries erected over it.

This * fort will contain 10,000 men at least, and one legion is more than sufficient to defend it. The time required for the erecting of it, may be seen in the calculation which follows. My casemates will not take up much, because they are only built with beams cut all in one piece; but even although two months are consumed upon it, and 8 or 10,000 men at the same time employed, the labour attending its construction will, nevertheless, be amply repaid by the strength and importance of it.

All the faces must be reveted or lined with quickfets, which will support the earth prodigiously, and render it unnecessary to allow

much

^{*} The building of this kind of fort is not practicable, but in places abounding with wood: but it may be erected upon the same fystem without wood, provided the construction of the counter-guard is such, that the enemy will not be able to make a lodgement in it: a strong brick wall, with scaffolds raised behind it, will be sufficient for a counter-guard.

much talus to the works; for the thorns being planted in rows, and their roots branching out and penetrating as far as the terre-plein, consolidate them, like a terrass, to such a degree, and fo effectually break the force of a ball, that I may venture to pronounce it im-

possible to make a breach in them.

It is likewise very difficult to escalade, or furprise a work thus defended, especially if the berm is well palisaded and fraised. The souterrains will hold the troops, cattle, provifions, and all fuch other necessaries as regard the subfistence and service of an army. If to these advantages of art, we join those which nature affords us in certain fituations, one may eafily conceive how practicable it is to erect forts of the greatest strength, especially when we add out-works to them; for the larger and more extensive places are, the more troops will confequently be required to befiege them; fuch, for instance, as are Lisle, Brussels, Metz, &c. which demand armies of 100,000 men to invest them: but then great numbers are necessary, in like proportion, to defend them.

I have contrived a method, capable of remedying that defect and inconvenience peculiar to small places, of being invested by small numbers, which will render the fiege of one of my forts impracticable with less than 100,000 men. This is by advanced towers, which are infinitely fuperior to redoubts, that a great many make use of only to extend and enlarge a place; and that are foon carried by

the

the enemy, unless one chuses to risk the loss of both artillery and troops in maintaining them: their defence, moreover, requires great numbers of men, which must very much fa-

tigue and weaken your garrison.

I place these towers 2000 paces from my fort, because I shall be able, at that distance, to batter them with my cannon, after they have fallen into the hands of the enemy. They are to be built of brick, and in such a manner as only to have a fingle wall on the interior fide; by which I mean to divide the circumference by its diameter, making the half of that fide which looks towards the country, folid, and leaving the opposite side hollow, as may be seen in the figure *. The distance from the centre of the body of the place to these towers, forms a radius of 3000 paces; the circle will therefore of course amount in circumference to 18,000 and some odd: so that in erecting the towers 500 paces afunder, (a communication between which must be also made by a good ditch), it will require thirty-fix to in-compass the whole. Nothing can possibly pass between any two of them, without being exposed to the fire of both; and although the enemy throws up lines to cover his passage, he will still be commanded by them; so that he will be reduced to the necessity of erecting batteries, and opening trenches, in order to deftroy them by regular fiege. Upon every one I shall plant four or five of my machines, call-

^{*} See plate 2. fig. 26.

ed amufettes, which will make great havock amongst the enemy, if within their reach, and thereby prevent his incamping at any distance less than 4000 paces; which radius being added to that of my works, produces a diameter of 14,000, and consequently a circumference of 42,000. Supposing then a single battalion or squadron to take up 100 paces, it will require 420 to occupy the circumvallation, and an equal number for the countervallation; which together will amount to 840. This is prodigious, when we, moreover, consider the defence which these lines will require; for it may be readily conceived such works would not be carried on without molestation.

It should not be imagined, that these towers may be easily demolished by barbette-firing; for the only effectual method is, to lay regular fiege to them: and it is likewise far from being impossible, that a battery of twenty-four pounders may fire for eight days successively against one of them, without having ruined it. I have frequently feen brick towers, hollow, and very weakly constructed, that have sustained the fire of twenty pieces of large cannon for three or four entire days together, and that at the distance of 400 paces only, without having been destroyed: but these being filled, and quite folid as far as the centre, are infinitely stronger; and if the enemy advances his batteries too near, he exposes himself to be plunged into: he will therefore be obliged to fire at a great distance, and consequently be incapable

pable of doing much damage; notwithstanding which, ten of these towers at least must be ruined, before he can carry his approaches fo far as to render a fingle affault practicable. Let us next confider what an immense work' it will be necessary for him to throw up, fuch, namely, as a retrenchment of eight leagues; and what a prodigious number of troops he will require to block up the place: all his posts must be constantly well defended; he must have an army of observation likewise: nevertheless it will be dangerous for him to divide his forces, and to leave the fiege to be carried on by a part only; for if the intervals between his battalions are fuffered to be too large, the place will be thereby left open, and supplies of every kind thrown in as often as they are wanted .--- Add to this, that the entire expence attending the construction of all these towers together, will not amount to fo much as that of a fingle bastion or horn-work.

Perhaps it may be proposed to set the miner to these towers; but that will be prevented by my patroles, which are perpetually to be going round the works, as well as by various o ther means: if he covers himself with mantlets, the amusettes will force an easy passage through them; with which I have pierced large oaks, above eighteen inches in diameter,

at the distance of 1000 paces.

These advanced towers will also answer the purpose of a retrenched incampment, affording shelter to an army upon occasion: they re-

quire

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quire but very small numbers to defend them; one officer, and eight or ten men, furnished with amusettes, being a sufficient complement for each.

I here finish the subject of fortification, which I might have insisted upon much longer, and have spoken of various machines, and dangerous inventions, but that I think there are already too many for the destruction of mankind.

A calculation of the time necessary for 4,800 men to erect a fort according to my plan.

To form the parapets and banquettes.

The first part. The excavation of the ditch.

I suppose 600 men to be here employed, 400 of which are to dig and clear the ditch, and the remaining 200 to form the parapets and banquettes, and to trim and ram the earth. Every workman will be able to clear a cubical toise Chap. ii. Reflections upon war in general. 163

toise of earth in a day of ten hours; the 400, therefore, in fifteen hours, will at least clear a ditch in the front of a polygon, containing 581 toises, two cubical feet; and the other 200 will form the work: consequently 4800 will finish the eight polygons of the fort in the same space of time.

To form the ravelins.

The first part. Excavation of the ditch.

Four hundred workmen and two hundred trimmers will form one ravelin, according to the above calculation, in thirty hours and a half; so that 4800 will consequently form the eight ravelins belonging to the fort in the same time.

To form the counter-guard.

Four hundred workmen will clear the front X 2 of

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of one polygon in twenty-five hours, and 200 will trim and form the work; 4800 will therefore require no more to finish the eight polygons.

To form the lunettes, the covert-way, and the glacis.

The first part. Excavation of the ditch.

Length, 136 0 0

Breadth, 7 0 0

Depth, 1 4 0

The second part.

Length, 55 0 0 Breadth, 3 0 0 275 0 1921 4 0 Depth, 1 4 0

The third part.

Length, 18 0 0

Breadth, 2 0 0

Depth, 1 4 0

Forty hours and three quarters are fufficient for 400 workmen, for the front of one polygon: 4800 will therefore make the lunettes, covert-way, and glacis of eight polygons, in the same space of time.

According to the above calculation, 4800 men will be able to finish one polygon in four-teen hours and a half, and consequently the entire fort in eleven or twelve days, allow-

ing ten hours to each.

Though

Though these calculations may be just, yet they must not be altogether depended upon in the execution; for I only made them, in order to convey an idea of the practicability of my plan; but by adding double or triple the

same time, they will infallibly answer.

The best method of employing the workmen, is by dividing them into four reliefs; by which means the work will be carried on brifkly, and the troops at the same time not be fatigued. Every foldier having only three hours labour in the day, will both perform his task chearfully and with more diligence: but then it must be accompanied with the found of the drum, and other warlike instruments in cadence. Lyfander, with a detachment of 3000 Lacedæmonians, destroyed the port of Piræus in Athens, to the found of the flute, in the space of six hours. We have still some small remains of this custom amongst us; and but a few years have elapfed, fince the galley-flaves at Marfeilles worked in cadence, and to the found of the timbrel.

The workmen must throw out the earth as much as possible, from step to step, with their shovels; for wheel-barrows are attended with a great many inconveniencies. They are not only expensive and troublesome in conveyance, but occasion delay and interruption in the carrying on of the works. A foldier may easily throw out a shovelful of earth from the depth of eight feet. And when the ditch is so much deeper, as to render that impracticable, the

earth must be removed in baskets. The pioneers, in digging the ditch, must leave ban-quettes or steps for the labourers to rest themfelves upon, during the time their baskets are filling; after which they are to carry them away to the places in which they are directed to empty them. They are to be about three feet deep, and narrow at the bottom, fo as to contain two cubical feet of earth; which will amount to very little more than 150 pounds in weight. This method of carriage is less fatiguing than that with wheel-barrows, although their load is not above half as heavy: and as the form, moreover, of the basket refembles that of a cone reversed, the foldier has no other trouble in emptying it, than just to lean a little fidewife. But all this work, as I have already observed, is to be performed in cadence, and to the found of fome instrument.

It is absolutely necessary to inure soldiers to labour; for if we examine the Roman history, we shall find that republic looked upon ease and indolence as their most formidable enemies. The consuls prepared their legions for battle no otherwise than by rendering them indefatigable; and rather than suffer them to be at any time inactive, they employed them on works that were even useless and unnecessary. Continual exercise makes good soldiers, because it qualifies them for martial enterprises; and by being habituated to pain, they insensibly learn to despise danger. The transition from fatigue to rest enervates them:

Chap. iii. Of war in mountainous countries. 167

it presents objects of comparison, which are difficult to reconcile, in so effectual a manner as to prevent idleness, that passion so predominant amongst mankind, from gaining the ascendant over them; from inciting them to murmur at every trisling inconvenience; and from softening their souls, after having emasculated their bodies.

C H A P. III.

Of war in mountainous countries.

Here is but little to be faid upon the fubject of this chapter. The conduct of a war in mountainous countries requires a great deal of skill and circumspection. The passage of defiles must never be hazarded, till the eminences have been first taken possession of. This precaution will prevent ambuscades, and fecure the troops, which would otherwife be unnecessarily exposed to the danger of being either totally destroyed, or obliged to retreat, after having sustained some considerable loss. If the passes, as well as the eminences, are occupied by the enemy, one must have recourse to stratagem, and make a faint attempt to force them, in order to engage his attention, and thereby procure an opportunity of discovering some other road: for however rough and impracticable mountains may at first fight appear, passes are nevertheless to be always found.

found, in being diligently fought for. The inhabitants themselves may perhaps be ignorant of them, because necessity never obliged them to look for any. One must therefore never give credit to their intelligence upon fuch occafions; for, in general, they have no other authority but tradition, for the principal part of what they know concerning their own country. I have very often experienced their ignorance, and the falfity of their informations; for which reason, it is necessary either to reconnoitre the ground one's felf, or to employ those who are not afraid of encountering difficulties. By industrious examination, one is always fure to fucceed; and, after having discovered passes which the enemy is unacquainted with, he will be at a loss what meafures to take; and, finding that his projects have miscarried, will, in the next place, think of providing for his fecurity by flight.

C H A P. IV.

Of war in inclosed countries.

S, in fituations of this kind, an enemy must be equally as imbarrassed as one's felf, there is therefore no great danger to be apprehended from him. The engagements which happen in them not being general, are never decifive, and usually terminate in favour of the most obstinate. But there is one effential

effential thing to be observed with regard to them; which is, that one's rear must be always kept free, in order to be able either to make detachments, or, in case of necessity, to retreat. A vast deal depends upon the disposition of artillery in actions of this kind; for as the enemy will be afraid to quit his posts, batteries that have been judiciously erected must do great execution: and although he abandons them, yet, as retreats are usually attended with difficulties, he may probably become thereby exposed to at least as much danger. But as I have already observed, these affairs are never decifive; and as they are to be governed by the nature of the fituations in which they happen, no particular rules can therefore be given in regard to them. Nevertheless, it must be laid down as one invariable maxim on all marches, to have parties, confifting of 100 men, always advanced in front, and upon the flanks, which must be sustained by others of double the same force, and these again by treble the same, in order to be effectually guarded against all attempts whatsoever of the enemy.

A detachment of 600 men may stop a whole army: for if, upon causeys bordered by hedges or ditches, fuch as are in Italy, and all wet countries, they present a large front to the enemy, he will naturally form his opinion of their strength by their appearance, and imagine their numbers much superior to what they really are. Upon emergencies, every little hut is fuddenly converted into a fortification, and frequently maintained with great obstinacy; which gains time to reconnoitre, and to form a disposition; for, in countries of this kind, one cannot be too cautious in preventing

furprises.

A partisan of enterprise and spirit, with 3 or 400 men, will find means to attack an army on its march, and to occasion a great deal of disorder and inconvenience. If he seizes an opportunity, at the close of the day, to cut off your baggage, he will be able to carry away a confiderable part of it, without exposing himfelf to much danger; because, if he retreats between two passes, and makes a vigorous opposition in his rear, he will thereby check your pursuit: in case he is hard pressed, he can march all along by the fide of the carriages, and the first house he finds, he will there oblige you to make a fudden halt; during which time, the baggage that he has taken from you is moving on apace. A stratagem of this nature, practifed upon your cavalry, must be attended with dreadful confusion.

It is for these reasons therefore that advanced parties ought to cover all the avenues of your march; but they must never be too weak in numbers; for unless they are sufficient to oppose any attack, nothing less than ruin and disgrace can be the consequence; as your adversary, if he is a person of some understanding, will find no difficulty to procure persons in his army ready to undertake any enterprise,

and capable of improving every opportunity to their advantage.

C H A P. V.

Of passing rivers.

T is far from being so easy as may be imagined to prevent an enemy from passing a river; and it is moreover what he will be able to do with less difficulty in his advance to attack you, than he will in his retreat. In the former of these cases, he shews his front, which is at the same time supported by a proper disposition, and a large fire of artillery: in the latter, he exposes his rear, which it is always very dangerous to do; but the more fo here, because that he is in a hurry; that this fort of disposition is never made with so much care as that which precedes the action; and that all men in a retreat contract a degree of fear, which in a manner reduces them to the state of being half defeated; a circumstance that is difficult to be otherwise accounted for, than by being ascribed to the natural imbecillity of the human heart.

One method of passing rivers is with a slank presented to the enemy; which is what Prince Eugene was suffered to do three times in two days, in the presence of the Duke of Orleans, before the battle of Turin. The ground between the two armies was level, and there was an advantageous opportunity of attacking the enemy even with fuperior numbers; notwith-flanding which, it was neglected, and the fiege of Turin in confequence obliged to be raifed.

In a fituation like this, the enemy that comes to relieve the place must always have the advantage, unless the fiege is raifed in proper time for the besiegers to march against him. The engagement moreover will never be general on his fide, but quite the reverse on theirs; because the former has all his troops affembled together between two rivers, his flanks being fecured, and his army formed in deep order; while, on the other hand, the latter are difperfed, and incapable of making fo strong a disposition. If therefore they are repulsed, their lines are immediately exposed to be flanked, and their whole army is defeated. Deliberations, in extremities of this nature, are fatal. Nevertheless, an enemy will sometimes make use of appearances to alarm the besiegers, and to induce them to quit their posts, in order to obtain thereby an opportunity of throwing fuccours into the place; to prevent which, and to be capable of diftinguishing reality from pretence upon every fuch occasion, is the peculiar characteristic of an able general.

The most prudent method for the besiegers, is, to assemble a sufficient number of troops to oppose the enemy, and to leave the remainder in the lines, in readiness to attack every thing that may attempt to make its entrance into the

ceipt

place. But then they are not to stand motionless with arms across, as if they were petrified or inchanted, and to suffer the enemy to pass a river, with his slanks exposed to them, unmolested; for when such favourable opportunities offer, they have only to take their choice which of the two slanks to attack; after which, there is all the appearance of their meeting with little or no resistance.

Marshal Villars had been ruined at the battle of Denin, if Prince Eugene had attacked him when he paffed the Sheld in his presence, with his flanks exposed to him. The Prince could never imagine the Marshal would make any attempt fo full of danger, immediately before his face; and that was the circumstance which deceived him. The Marshal had covered his march with great skill and address; which the Prince surveyed for a confiderable fpace, with all his troops under arms, without being able to discover his real design; at which time if he had advanced, the whole French army must have been destroyed, because its flank was then exposed, and a great part of it moreover had already passed the river. At eleven o'clock the Prince faid, "I think we " might as well go to dinner!" and ordered the troops to refresh; but he had scarcely sat down to table, when Lord Albemarle sent him intelligence, that the head of the French army appeared on the other fide of the river, and was actually preparing to make an attack. If he had marched immediately upon the receipt of this information, there still remained fufficient time to have cut off at least a third part of the French army: nevertheless, he only gave orders to a few brigades upon his right, to march to the intrenchments of Denin, which were four leagues off; and then went with all speed to reconnoitre in person; not being even yet able to persuade himself, that the French could possibly have passed the river. At length he discovered his error, and faw them forming their disposition for the attack, when he immediately gave up his retrenchment for loft; and after having examined them for a moment with no small mortification, he gave orders for the cavalry that was in that post to retreat.

The effects produced by this affair are hardly to be conceived: it made the difference of above 100 battalions to the two armies; for the Prince became thereby obliged to throw troops into all the adjacent places; and the Marshal, perceiving the allies were no longer in a capacity to carry on a siege, after they had lost all their magazines, drew above sifty battalions out of the neighbouring garrisons, which strengthened his army to such a degree, that the Prince, not daring to keep the field any longer, was forced to deposit all his artillery in Quesnoy; in which place it was after-

wards taken.

When towns are fituated at the junction of rivers, it is always practicable for an army that comes to the relief of the besieged, to destroy

the bridges of communication belonging to the befiegers; by which means, their troops being divided, one may be able to defeat them in separate bodies, and consequently to oblige them to raise the siege. The former are not afraid of attacking the line of countervallation, because they know the latter will be deterred from abandoning their posts to oppose them, both on account of the superiority of numbers against them, and the extent of the ground to be maintained, which must continue to increase upon them, in proportion as they move further from their works: they moreover naturally become discouraged by this necessity of remaining behind their intrenchments; while the enemy, on the contrary, having little or nothing to fear, is thereby imboldened; a circumstance which amounts to more than half the victory in an engagement.

With regard to the passage of rivers by open force, I look upon it as a thing hardly possible to prevent, especially when sustained by a large fire of artillery, to gain time for the van to intrench itself, and to throw up a work to cover the bridge. There is nothing esfectual to be done in the day. Nevertheless, during the night, this work may be attacked with great advantage; and if it happens that the enemy has begun his passage at that time, he must be thrown into a general confusion, attended with the certain loss of those who may have already passed. But an attack of this kind must be made with a large force; and if the

opportunity

opportunity of the night is fuffered to pass unimproved, his whole army will have got over before morning; after which, it is no longer practicable to make any attempt upon him, without drawing on a general engagement; which situation and circumstance renders sometimes very imprudent to hazard.

In short, there are a great many established rules for the passage of rivers, which people put in practice with more or less success upon every occasion, according to the different de-

grees of their abilities.

The affair of Denin puts me in mind of an accident, which it is not unseasonable en pasfant to give an account of. — The French cavalry being difmounted after the action was over, the Marshal, who was always in high spirits, says to the soldiers of a regiment upon his right, as he was passing along the line, Well, my lads, we have beat 'em! upon which some begun to cry out, Long live the King! others to throw their hats into the air, and to fire their pieces. The cavalry joining in the acclamation, alarmed the horses to such a degree, that they broke loofe from the men, and galloped quite away; infomuch that if there had been four men in the front of them, they might very easily have led them all off to the enemy. It moreover occasioned some considerable damage, as well as diforder, great numbers of the men being wounded, and a quantity of arms loft. - I was unwilling to omit here the relation of this circumstance, for the

fake of introducing a description of the method of decoying horses, as there are but few parti-

fans who are acquainted with it.

The decoy is a very diverting stratagem to carry off the enemy's horses in a foraging-party, or from the pasture. To execute this, you must be disguised, and so mix on horseback in the pasture, or amongst the foragers, on that fide on which you propose to fly: you must then begin, by firing a few shots, which are to be answered by such of your party as are appointed to drive up the rear, and are posted at the opposite extremity of the pasture, or foraging-ground; after which they are to gallop from their different stations towards the fide fixed for the flight, shouting and firing all the way. The horses being thus alarmed, and provoked by the example of others, will break loofe from the pickets, throw down their riders, and the truffes, and, fetting up a gallop, will naturally direct their course to the same fide; infomuch that if the number of them was ever fo great, you might lead them in that manner for several leagues together. When you have got into some road bordered by a hedge, or ditch, you must stop as gently as possible, and without making any noise, where the horses will suffer themselves to be taken without opposition. Such an artifice practised upon an enemy, must distress him not a little, and is what I once faw put in execution myself: but as all the good customs have been exploded,

178 Of situations for incampments, Book II. exploded, this appears to be forgotten with the rest.

C H A P. VI.

Of situations proper for the incampment of armies, and for engagements.

advantages from every different fituation which nature prefents to him; from plains, mountains, hollow ways, ponds, rivers, woods, and an infinite number of other particulars, all which are capable of rendering great fervices, when they are converted to proper purpofes: but although they make fo material an alteration, both in fituation and circumftance, whereever they happen to be; yet as fuch advantages are frequently overlooked, till the opportunity of profiting by them is loft, it may not be unfeafonable to enter into fome detail upon the fubject.

Let us then, in the first place, suppose a piece of ground divided by a rivulet, and a chain of ponds *, as represented in plate 9. fig. 27. and 28.——AA represents the army marching up to attack BB, whose infantry is at first drawn up in one line to cover the ponds: but

^{*} It is always an easy matter to make ponds in a situation where there is a rivulet, by stopping its course at certain distances with banks, and, as one pond fills, directing its over-slowings into another.

as foon as the enemy arrives within reach, my infantry in the front of these ponds marches back by the intervals or banks between them, to form a fecond line; and my cavalry is at the fame time advanced upon the right, to keep in awe the enemy's left wing; which movement alone is fufficient to disconcert him: if he attempts to attack this cavalry, it is to repass the intervals between the ponds, which are guarded by bodies of infantry, that are posted immediately behind them. This manœuvre will have so long engaged the enemy's attention upon his left, that he will not have fufficient time to change his disposition, or to reinforce his right: because the moment my cavalry is arrived upon my right, I attack all that part of the enemy's line that lies between me and the rivulet, which very probably I shall throw into confusion. His right wing being thus defeated, the rest of his army will be affaulted in front and rear by my two wings of cavalry, and in flank by all my infantry. If he inclines in the least to the right, in order to present a front to my infantry, he will thereby expose his left flank to the troops which I have posted upon my right, and upon the intervals between the ponds: under these circumstances therefore it will be impossible for him to make any movement, without being thrown into confusion.

According to this disposition, I suppose the enemy's army to confist of double the strength of mine; and although it may be imagined,

that the cavalry upon my right is in danger of being cut to pieces, yet the more the attention of the enemy is taken up with an object in his front, the more he will be intangled in the fnare that is laid before him; for I shall thereby be furnished with a better opportunity of falling upon his rear; after which my cavalry must be more than commonly unfortunate, if it be not able to make good its retreat by the intervals between the ponds, where the enemy

will certainly not dare to purfue it.

Plate 10. fig. 29. represents the two armies in another fituation, where AA is to attack BB: CCC are three strong redoubts thrown up at the distance of three hundred paces in the front of BB, furnished each with two battalions, and every thing elfe that may be neceffary for their defence: D is some detached cavalry: EE are two flanking batteries: FF two battalions posted in two redoubts to cover the batteries. -- I suppose the enemy's army AA to be twice as powerful in numbers as BB; nevertheless, in what manner is he to attack me in this disposition? It is impossible for him to march up in line of battle, without being broken and disordered, till he has first rendered himself master of my redoubts; in attempting to do which, he will be exposed to a fevere flanking fire from my two battalions; and to pass the redoubts, and leave them in his rear, will be impracticable: if then he resolves to attack them by detachments, I shall in like manner make others to maintain them; in which

which I must have considerably the advantage, on account of the damage that he will unavoidably sustain from my cannon: if he advances with his whole army against them, I give the fignal for my cavalry, which is con-cealed behind the wood, to move up at full fpeed, and fall upon his rear; at which time I also march up, and charge him in front: being therefore at once imbarrassed by the redoubts, thrown into some disorder, and attacked in rear, there is all the appearance of my

obtaining an easy victory.

This is an excellent disposition, where you can be certain that the enemy is either incli-ned, or obliged to attack you; for one cannot possibly be too careful in avoiding every step that may correspond with any hopes or expectations of his. This is a maxim in war never to be departed from, but in extraordinary cases, where no fixed rules can be given. A good opportunity for engaging should never be neglected, merely because the situation may happen not to be strictly agreeable to your fancy; for you must form your disposition according as you find it, and decline the attack altogether, unless you can make it with advantage; by which I mean, unless your flanks are well covered; unless you can engage a small part of his army, with a large part of yours; can amuse, or keep a check upon him, by the means of any small river, marsh, or other obstacle that may lie between you; supported by circumstances of which nature, you can attack

him

him with confidence, although confiderably inferior in numbers, because you will risk no-

thing, and may obtain a great deal.

Suppose, for instance, his army BB to be divided by a river in the manner represented in plate 11. fig. 30. and that I am to attack him with AA in that fituation; I shall therefore make the following disposition for it. With my right wing I shall keep in awe his left; and with my left try all efforts to defeat his right: according to appearances, I shall be able to pierce him in the part marked C, upon the bank of the river; for it is but reasonable to fuppose, that the strong must overpower the weak; in consequence of which advantage, as the communication between the two divisions of his army will be thereby cut off, and the left, in which his principal strength consisted, be no longer able to fustain the right, he must be rendered incapable of maintaining his ground; and finding himself exposed both in front and flank, will undoubtedly retire.— Let us proceed to another example.

A * is the enemy's army which I am to attack with B: the rivulet between us is suppofed to be every where fordable; and the incampment of A to be made upon its banks, as is usually the custom in such situations, as well on account of the protection which it naturally affords, as for the convenience of the water: the enemy being in this disposition, I arrive towards the evening, and incamp with B

^{*} See plate 11. fig. 31.

on the opposite side. As he will not be inclined to trust to the uncertain event of an immediate engagement, he will undoubtedly therefore not pass the rivulet, or quit the advantage of his post, to attack me in the nighttime; on the other hand, I rather imagine that he will be altogether taken up in providing for the defence of it: on my fide, I shall only leave one weak line opposite to him, and marching all night with the remainder, gain the position C. I have nothing to fear from the enemy, in making this movement; for he will certainly not venture to pass the rivulet, or to leave his post unguarded, on bare surmise or conjecture only. The day arriving, he discovers me upon his left flank, as well as in front; after which it will be impossible for him to make any disposition, or to form any order of battle, without being thrown into confusion; for I shall fall upon him before he can have had fufficient time to finish it; but his attention will principally be taken up, in fustaining his post upon the rivulet, which I shall attack at the fame time, with the troops that were left on the opposite side for that purpose: he will detach some brigades to oppose me upon the left, which arriving en detail, and having to engage with a large body, drawn up in good order, will eafily be repulsed; infomuch that he will be in a manner totally defeated, before he can be even able to persuade himself, that the real attack was made on this fide; and after having thus at length discovered his mistake.

take, he will cease to be in any kind of capa-

city to remedy it.

Plate 4. fig. 32. represents another fituation, in which the enemy's army AAA, is supposed to be formed in separate bodies, and extended to a confiderable diftance all along a large river, in order to cover a province, as is frequently the case. AAA is therefore to defend the river, and BBB is the offensive army, endeavouring to pass it; and extended in like manner upon the opposite borders. These large rivers have generally plains on both sides, bounded by mountains, out of which issue fmall ones, or rivulets, that are fometimes of a confiderable fize, and that discharge themfelves into the greater: by the means therefore of fuch a rivulet, one must endeavour to build a bridge, unknown to the enemy; for in this lies the great difficulty of passing all rivers: after having then prepared your bridge all along the rivulet, you are to throw it over that part of the river marked C, where you are to force your passage; in which, I take it for granted, you will be able to fucceed, especially if you make at the same time two false attacks at the places marked D and E: the enemy will not dare to vacate any of his posts, neither will the general officers, fituated in different quarters, execute any orders they may receive to that effect; for as, at this time, they will be engaged themselves, and as each will suppose his to be the real attack, they will from thence be induced, not unreasonably, to suppose,

pose, that their commander in chief had not been informed of it: during all this time the grand effort is making at the centre between the rivulet and the mountain, marked F. The first step to be taken after the passage, is to possess yourself of the eminencies; by which means you divide the enemy, and having cut off his communications, he can hardly hope to time his arrival afterwards fo well, as to be able to attack you on both fides at once; and although he even does, he will nevertheless be eafily demolished: the circumstance of your being possessed of these advantages, without having suffered any loss in the obtaining of them, will add to his confusion; for notwithstanding your passage should be disputed, yet the opposition you meet with, can never be confiderable enough to permit it; especially when you have used proper precautions, and made your disposition with judgment. After you have once taken post, and erected your bridge, for which four hours is a fufficient space of time, and as much more that will be required for the passage of 30,000 men, you may allow the enemy twenty-four hours to penetrate into your real design, and twenty-four more to assemble either half of his army, at the place in which he has attacked you: but even this will be rendered impracticable, because I suppose you to be effectually covered after you have passed, by the rivulet on the one fide, and by the mountain on the other.

All the large rivers that I have feen, pro-A a duce duce a great variety of fituations, where paffages of this kind may be executed; and fmaller ones afford likewife the fame; but they are feldom quite fo commodious, because the plains and mountains which furround them are usually not so advantageous, nor the rivulets so considerable.——In short, by discernment one may reap advantages from a thousand different forts of situations; and a commander void of that, cannot possibly be expected to do any great things, even with the most numerous armies.

I am unwilling to finish this chapter, without making some observations upon the battle of Malplaquet. If, instead of posting the French troops in bad intrenchments, the three woods overagainst the hollow ground had been only cut down, and three or four redoubts thrown up in it, supported by a few bridges, I am of opinion, that things would have taken a different turn: for had the allies attacked them, they must have lost an infinite number of men, without ever being able to carry them. It is the property of the French nation to attack: but when a general is unwilling to depend altogether upon the exact discipline of troops, and upon that great order, which, according to the present system, is always necessary to be observed in actions, he ought, by throwing up redoubts, to introduce the method of engaging en detail, and of attacking by brigades; in which he might certainly succeed very well. The first shock of the French is scarcely to be resisted:

resisted; nevertheless it is the part of a general, to be able, by the prudence of his disposition, to renew it: and no means can facilitate this fo much as redoubts; for you can always fend fresh troops to sustain them, and to oppose the enemy. Nothing can possibly create fuch distraction, or tend to dispirit him to so great a degree, because he will be afraid, at every attack, of being exposed in flank: while, on the other hand, your own troops become thereby encouraged; for they are conscious that their retreat is fecure, and that the enemy will not dare to purfue them beyond the redoubts. It is upon fuch an occasion, that you might be able to reap the greatest advantages from their vigour and impetuofity: but to post them behind intrenchments, is in a manner to occasion their defeat; or at least to deprive them of the means by which they might have conquered.— That would have been the event of the day at Malplaquet, if Marshal Villars had taken the greatest part of his army, and attacked the one half of that of the allies, which had been fo imprudent, as to form a disposition in which it was totally separated from the other by a wood, without having any communication at the same time made between them: the flanks and rear, moreover, of the French army would have been under cover, as may be seen in the situation of it, represented in plate 12. fig. 34.

There is more address required in making bad dispositions, than may at first be imagined,

A a 2

provided

provided they be fuch as are intentional, and fo formed as to admit of being instantaneously converted into good ones. Nothing can confound an enemy more, who has perhaps been anticipating a victory, than a stratagem of this kind; for he perceives your weakness, and draws up his army in the order in which he expects to benefit the most from it; but the attack is no fooner begun, than he discovers the imposition. I must repeat it therefore, that nothing can possibly disconcert an enemy fo much, or plunge him into errors fo dangerous; for if he does not change his disposition, he must infallibly be defeated; and the alternative, in the presence of his adversary, will be attended with the same fatal consequences.

If the Marshal had abandoned his intrenchment at the approach of the allies, and made his disposition in the manner represented in plate 35. it appears to me, that he would have

succeeded much better.

C H A P. VII.

Of lines and retrenchments.

Hese are works to which I am altogether averse, from a persuasion, that the only good lines are those which nature has made; and that the best retrenchments are, in other words, the best dispositions, and the best disciplined troops.

I

I fcarcely remember a fingle instance of lines or retrenchments having been assaulted, and not carried. If you are inferior to the enemy in numbers, you will not be able to defend them, when they are attacked with all his forces, in two or three different places at once: the same will be the consequence, if you are upon an equality with him: and with a superiority, you have no occasion for them. What sufficient reason can you therefore assign, for bestowing so much labour in the construction of works, which appear to answer your purpose so little?

The persuasion of the enemy, that you will never dare to leave them, renders him bold. He trifles with you even before your face, and hazards several movements, which he would be asraid to make, if you was in any other situation. And this courage is equally diffused amongst both officers and soldiers; because a man always dreads danger itself less than he does the consequences of it; which is an argument that I could support by a number of

examples.

Suppose a retrenchment to be attacked by a column, the head of which is arrived upon the brink of the ditch; if, at that time, only a handful of men should make their appearance, at the distance of a hundred paces without the retrenchment, nothing is more certain, than that the front of this column would instantly halt; or, at least, would not be followed by the rear: the reason for which can be deduced

from

from no other source than the human heart.

——If only ten men get footing upon a retrenchment, whole battalions that have been posted behind for its defence, will abandon it. They no sooner see a troop of horse enter within half a league off them, than they give

themselves totally up to flight.

As often therefore as one is obliged to defend retrenchments, one must take particular care to post all the troops behind the parapet; because, if once the enemy sets foot upon that, the defendants will no longer think of any thing but their own fecurity; which proceeds from that consternation which is the unavoidable effect of fudden and unexpected events. This is a general rule in war, and is what determines the fate of the day in all actions. It is the irrefistible impulse of the human heart, which, on account of its confequences, was the principal motive that induced me to attempt this work; as I am apt to imagine, it would never have occurred to any other perfon to ascribe the greatest part of the bad success of armies to this cause, although the true one.

If then you station your troops behind the parapet, their only hopes and expectations are, to prevent the enemy by their fire from passing the ditch, and forcing it; which if he is once able to accomplish, they instantly give themselves up for lost, and in consequence take to slight. Instead of this method, it will be much more prudent to post a single rank there, arm-

ed with pikes, whose business will be to push the affailants back therewith, as fast as they attempt to mount. This your men will certainly execute; because it is what they expect and are prepared for. If, moreover, you post bodies of infantry, at the distance of thirty paces, in the front of the retrenchment, they will not be confounded at the approach of the enemy, from a consciousness of their being stationed there for no other purpose than to oppose him, which, for that reason, they will do with proper vigour and resolution; while, on the contrary, had they been all posted behind it, they would have fled at his appearance. Thus we see upon what nice distinctions every thing in war depends, and how irrefiftibly weak mortals are governed by mere momentary caprice and opinion.

To this I might add the absurdity of our manner of drawing up the troops for the defence of retrenchments. We post our battalions four deep behind the parapet; in which order the front-rank only is able to do execution, because it fires off the banquette: And although the others may be advanced after the front has fired, yet their shots are only thrown away, because the men are crouded together, and do not take take aim at any certain object. They must necessarily also be involved in great confusion; from which the enemy cannot fail to reap advantage, when he arrives upon the parapet, which they are moreover totally incapable of preventing, for want of

being properly prepared, with fixed bayonets or pikes. They make a continual buftle in your battalions; or rather, it is your battalions themselves, which form a bufy and confused croud, like a swarm of ants, that have been disturbed in their nest. Every man's attention is taken up with his siring only; and the moment the enemy sets foot upon the parapet, they abandon the desence of it.

If I had a * retrenchment to maintain, I should make use of a different disposition for that purpose; of which the following is a de-

fcription.

I should post my centuries all along the parapet in two ranks; the first, armed with fufees, upon the banquette, and the fecond, with pikes, at the foot of it, together with the officers and non-commissioned officers. The lightarmed troops I should also post upon the banquette, by the addition of which to the frontrank, it would confift of about 100 men per century, and the rear-rank of about fifty, exclusive of the officers. As I erect my parapet fix feet high, the affailants, who would otherwise take post upon the berm, in order to fire over it, will be deprived of their usual refource, and find themselves obliged to mount it: in attempting which, they must be pushed back, and destroyed by the pikes of my rear-rank. The officers and non-commissioned officers are to be posted one to every five men, and must

^{*} See plate 5. fig. 36.

be attentive to their behaviour; encouraging them at the same time, and taking care that they make a proper use of their weapons. is moreover in a particular manner necessary to persuade them, that they are by no means to depend upon the effect of their small arms, or to imagine their firing only will be fufficient to repel the enemy; but that the top of the parapet is the place where they will be required to exert themselves. These precautions will prevent their being furprifed, or terrified to fee him enter the ditch; for as it cannot be doubted, but that he will take a firm resolution to stand their fire, which it is as certain that he will be able to go through, one ought therefore to expect, and be prepared for the confequence. If he endeavours to take post upon the berm of the retrenchment, in order to dislodge me from the banquette, which is frequently the case, I shall be able to reach him with my pikes, and to push him back, man by man, as fast as he approaches. But if, at length, notwithstanding all opposition, he forces the retrenchment, and attempts to form, I shall charge him en detail by centuries: and as my troops have been properly prepared for all extremities, they will, for that reason, be subject to no surprise, and will make their asfault with vigour.

This is all that can be faid concerning the defence of retrenchments. But one must have different reserves in readiness to reinforce occasionally those posts against which the ene-

my's principal strength appears to be directed: a circumstance not always easy to accomplish, because it is what a skilful adversary will prevent your being able to discover: They must therefore be stationed as much at hand, and as advantageously as possible; which is to be determined by the nature of the fituation, as well without as within the retrenchment. You need be under no apprehensions of being attacked in places where the ground is level to any confiderable diftance; for in fuch it will be difficult for the enemy to difguise his real purpose: but whenever there happens to be any eminence, hollow, or other piece of ground to cover his approach; there you may expect him to make all his efforts, because he will thereby hope to conceal his disposition and numbers.

If you can contrive some passages in your retrenchments, for a party or two to sally out of, just as the head of the enemy's columns arrives upon the brink of the ditch, they will certainly make them halt the same instant; even although they have forced the retrenchment, and that some part of them have already entered; for, as they are unprepared for any such incident, they will be alarmed for their slanks and rear, and, in all probability take to slight.

Amongst a thousand examples that might be produced, to authorise my ideas upon this head, I shall make choice of the two following

Cæfai

Cæsar being desirous to relieve Amiens when it was befieged by the Gauls, arrived with his army, which confifted of no more than 7000 men, upon the borders of a rivulet; where, immediately after, he threw up a retrenchment with fo much precipitation, that the barbarians, imagining he was afraid of them, attacked it, although in reality he had no manner of intention to defend it; for, on the contrary, while they were employed in filling up the ditch, and rendering themselves masters of the parapet, he fallied out with his cohorts, and thereby threw them into fo great a consternation, that they all turned their backs, and fled, without so much as a single person's making the least attempt to defend himself.

Alefia being besieged by the Romans, the Gauls, who were infinitely fuperior in numbers, marched to attack them in their lines. Cæfar, instead of defending them, gave orders to his troops to make a fally, and to fall upon the enemy on one side, while he attacked them on the other; in which he fucceeded fo remarkably well, that the Gauls were routed with a confiderable lofs, exclusive of above 20,000 men, that were taken prisoners, together

with their general.

If one does but confider the * method in which I form my troops, one must readily allow that they will be capable of moving with much more facility than our battalions in their

^{*} See plate 11. fig. 37. and plate 4. fig. 38.

present extensive order; for supposing several of them to be drawn up four deep, one behind another, what fervice can they render in that disposition? They are unwieldy; every trifle ferves to imbarrass them, the ground, their doubling, or any other fuch circumstance; and if the first is repulsed, it falls in disorder upon the second. Nevertheless, suppose the second is not thereby disordered, yet it will require a long space of time before it can possibly be able to charge, because the first, which is broken, must be allowed to move clear of its front; and unless the enemy is fo complaifant as to wait with his arms across during all this time, he will certainly drive that battalion upon the fecond, and the fecond upon the third; for after having repulsed the first, he has nothing to do, but to advance brifkly forward; and if there were thirty, one in the rear of another, he will throw them all into confusion. Yet this is what is called attacking in column by battalions.

My disposition is of a very different kind: for although the first battalion should be driven back, that which follows it, will notwithstanding be able to charge in the same instant, moving up in quick fuccession, and renewing the attack with fresh vigour. I am moreover formed eight deep; have no fort of imbarraffment to apprehend; my march is rapid, and yet free from all manner of disorder; my charge is violent; and I shall always outflank the enemy, although equal in numbers. No-

thing

thing certainly can be more wretched and abfurd, than the order of battle which is at present in general use; and I am at a loss to know why the principal officers can fuffer it fo long to prevail, and have not yet attempted to make fome alteration in it. - Mine is far from being new; for it is that of the Romans, that with which they conquered the universe. Greeks had great knowledge in the art of war, and were very well disciplined; yet their large phalanx was never able to contend with the small bodies of the Romans disposed in this order; in which opinion I am supported by Polybius *, who concurs with me in giving them the preference. What then can be expected from our battalions, when opposed against them, which have neither strength nor principle to vindicate their disposition? Let the centuries be posted in what situation you please; in a plain, or in rough ground; make them fally out of a narrow pass, or any other place, and you will fee with what furprifing celerity they will form: order them to run at full fpeed, in order to take possession of a defile, hedge, or eminence; and the instant in which

^{*} At the time when I finished this work, I had not read Polybius throughout; but having, in a late perusal of him, met with the following comparative account of the two nations concerning the subject in question, I was glad to give it a place here; esteeming myself happy to have thought like him, who was cotemporary with Scipio, Annibal, and Philip; and who, during the course of the several wars carried on by these celebrated captains, served in different armies, and was invested with great commands. So illustrious an author cannot fail of justifying my ideas.

" other.

the standards arrive, they will be drawn up, and dreffed. This is what is absolutely impracticable with our long battalions: for to march them with any regularity, and to form them in their natural disposition, will require a great deal of time, and likewise a piece of ground made on purpose; which are things so incompatible with the fervice, that it is impossible to see them put in execution without the utmost disgust and impatience.

"I promised, in my fixth book, to seize " the first opportunity that offered, to make a " comparison between the arms of the Mace-

"donians and Romans, as also between their " different orders of battle; and at the same

time to particularize in what the advantage, or disadvantage of the one, in respect of the

other, consisted. As it is but proper that I should keep my word, I shall therefore lay

hold of this occasion, which the action *

that I have been just relating, affords me

for that purpose.

" Formerly the Macedonian disposition surpassed that of the Asiatics and Greeks; a circumstance rendered incontestable by the

victories which it obtained over them; neither was its deficiency the occasion of its

yielding even to that of the Romans in Africa and Europe. But as their orders of battle

are now frequently opposed one against an-

^{*} If the reader has any inclination to fee Polybius's account of this action, which was between Philip and Flaminius, he will find it in the third chapter of his 17th book.

"other, it will not be amiss to trace the particulars of their difference, and thereby ascertain the reason why the preference is due to
the Romans. After having by this method
made ourselves thoroughly masters of the subject, we shall probably no longer ascribe the
fuccess of events to fortune, and blindly applaud conquerors, without being acquainted
with the cause of their victories, as ignorant
persons are apt to do; but at length accustrom ourselves both to approve and to con-

" demn from principle and reason.

" I imagine it will be unnecessary to obferve, that one must not, from the engage-66 " ments which Hannibal had with the Romans, and the victories he obtained over them, come to any decision concerning their different methods of fighting; because he was not indebted for his conquests, either to his fuperior manner of arming his troops, or of drawing them up; but to his skill and dexterity. This is what we have clearly demonstrated in the course of our relation of his battles; and fuch as require any further conviction, let them cast their eyes upon the event of the war. As foon as the Romans got a general of equal abilities at their head, they became victorious: but I might "appeal to the example of even Hannibal himself, who, immediately after his first " battle, abandoned the Carthaginian armour, to adopt that of the Romans, which moreover he never afterwards laid afide.

"rhus even went further; for he not only took their arms, but likewife employed their very troops in Italy. In his engagements with the Romans, he drew up alternately one of their companies, and one cohort in the form of the phalanx; yet this manner of incorporating them availed nothing; for the advantages which he at any time gained, were always extremely dubious and uncertain.

"This introduction to the fubject was neceffary, in order to prepoffes and prepare
the minds of my readers for the perusal of
the sequel. I now therefore proceed to my
comparison of the two distinct orders of
battle.

" It is an invariable truth, and what may be justified by a thousand instances, that fo long as the phalanx can maintain itself in " its natural order, nothing can possibly resist " it in front, or support the violence of its shock. Every foldier under arms is allowed the space of three feet. The pike was originally twenty-four feet in length, but has fince been made three feet shorter, in order to render it more convenient: after which diminution of it, there remain, from the part which the foldier holds in his left hand, to the butt-end in his right, fix feet, which ferves likewife by way of a counterpoise to the other end; and consequently, when he pushes it with both hands against the enemy, it extends fifteen feet before

" him.

him. When the phalanx therefore is pro-" perly formed, and its ranks and files are at charging-order, the pikes of the fifth rank pass the first three feet; those of the fourth, fix feet; those of the third, nine feet; those of the fecond, twelve feet; and those in the front are advanced fifteen feet. As the phalanx is drawn up fixteen deep, one may readily imagine what must be the shock of fuch an immense body. The foldiers indeed, in all ranks after the fifth, cannot fight against the enemy, nor reach him with their pikes; yet, by keeping them advanced, and floping over the heads of the ranks in their front, they break the force of the missive weapons that are discharged against them. They are also of great service when they march up to the attack, in supporting and pushing forwards their leaders; by do-ing which, they at the same time deprive them of all possibility of flying.

"Having thus taken a view of the entire body, as well as the different parts of the phalanx, let us now examine the property of the armour, and order of battle of the Romans, that we may from thence be able to make the comparison which we have

" promised.

"A Roman foldier only occupies three feet of ground; but as, in covering himself with his buckler, and using his sword, he must of necessity make some movement; an interval therefore of at least three seet

C c " must

"must be allowed between the ranks and stiles, in order to render him capable of personal forming all his motions with proper ease and convenience. In action, therefore, every Roman soldier has two men, and ten pikes, to force; which, when they come to close quarters, is more than he is able to do, either by destroying or breaking them: neither can the ranks which sollow him be of any assistance in that respect; the violence of their charge will be equally insufficient, and his sword will be rendered uses less.

" From hence it appears how much reason there is to fay, that the phalanx is invincible in front, fo long as it preserves its natural order, and that no other disposition is able to refift it. From whence then, it may be faid, comes it to pass, that the Romans conquered it? Because in war the time and place of engagement make an infinite difference in circumstances; and the construction of the phalanx is fuch, as renders it incapable of acting with all its force but at a certain feafon, and in a certain method. If an enemy is reduced to the necessity of engaging it at a time, or in a fituation favourable for it, there is the greatest probability, as I have already observed, of its gaining the victory: but if one can deprive it of both these advantages, which is far from being a matter of any difficulty, it will then be no longer fo formidable.

to form only a part of the phalanx, will require a fituation open, level, free from "ditches, bogs, hollows, eminences, and " rivers, is a circumftance universally acknow-" ledged; and yet it is extremely difficult, if not impossible, to find a piece of ground of but twenty furlongs, or a little more, that is void of all these obstacles. What use can be made of the phalanx, if the enemy, instead of marching up to it in its chosen situation, disperses himself throughout the 66 country, plunders the towns, and lays waste the territories of its allies? This large body remaining inactive, rather than quit the post that is adapted to it, will not only be thereby incapable of affifting its friends, but even of supporting itself; for the enemy being master of the country, and meeting with no fort of opposition, will carry off all its convoys; and if it relinquishes its post, in order to put a stop to these inconveniencies, or to execute any enterprise, it thereby loses its power, and exposes itself to the derision of its adversary. But even suppose the enemy marches to attack it up-" on its own ground, if he does not present his whole army to it at once; or if, the moment in which the action should begin, he " fuddenly avoids it by retreating, what then " becomes of its mighty power?

"It is an easy thing to form a judgment concerning it, by the manœuvre which is at present in use amongst the Romans; for

I advance nothing upon mere argument, but refer to absolute facts for my authority, and fuch moreover as are yet recent. The Romans do not employ all their troops to make a front equal to that of the phalanx, but always post one part of them in referve, and oppose the enemy with the o-ther. Whether therefore the phalanx diforders their front-line, or is broken itself, they have still a regular body in readiness for action; whereas the phalanx, if the event be such as to oblige it either to pursue or to fly, it loses equally all its force: for in both cases it must unavoidably make intervals, which the referve will take advantage of, and charge it both in flank and rear. In general, then, as it is easy to avoid the time, and all fuch other circumstances as give the advantage to the phalanx, which, on the other hand, it is impossible for the phalanx to return, it may be readily conceived how much it is inferior to the disposition of the Romans.

"We might add likewise the inconvenience of the phalanx in the case of marching thro' all sorts of grounds; in incamping, in taking possession of advantageous posts, in besing besing, in being besinged, and in surprising an enemy upon his march; for all these accidents frequently occur in war: and although a victory does not always depend upon them, yet they generally contribute largely towards it. Nevertheless, it is extremely

Chap. viii. Of the attack of retrenchments. 205 tremely difficult to employ the phalanx upon any of these occasions, because it cannot engage in fuch fituations, either by cohorts, or man to man; whereas the Roman order, even 66 in rencounters of this nature, is subject to no fort of imbarraffment: every place, every time is convenient; the enemy can never furprise it from any quarter; the Roman foldier is always prepared for action, whether it be with the army entire, or with a 66 part of it; whether by companies, or man to man. Is it then any longer furprifing, that the Romans, with an order of battle, all the parts of which were capable of acting with fo much facility, fucceeded in 66 general better in their enterprises, than those who opposed them with any other? ----Upon the whole, I thought it incumbent upon me to discuss this matter at large, because most of the Greeks look upon it as a kind of prodigy, that the Macedonians have " been defeated; and because there are others

C H A P. VIII.

" again who are still at a loss to know the rea-" fon why the Roman order of battle is supe-

rior to the phalanx."

Of the 'attack of retrenchments.

Hen you are to attack a retrenchment, it is always proper to extend your line

as far as possible, in order to keep the enemy every where in awe, and thereby to prevent his drawing troops from any post, to reinforce that which you have an intention to attack, even after you have put it in execution. To effect this, all your centuries, which are to deceive the enemy by their appearance only, are to be drawn up four deep, and to march in a line: the rest of your manœuvre, and your preparations for a real assault, are to be conducted in the rear of them; which is what I call masking the attack. This part of the military art depends upon the imagination. general, in this fituation, may have recourse to all forts of stratagems, because the certainty of his not being attacked in it leaves him at full liberty to make what experiments he plea-fes: every valley, hollow way, hedge, and a thousand other things, may be converted to fome advantage, and rendered instrumental to his fuccess.

In charging by centuries, you need be under no apprehensions of confusion: every centurion will be jealous for the honour of his standard; and amongst the number, it is impossible there can be wanting some, who will be even glad of an opportunity to risk their lives for the sake of signalizing themselves; because the particular behaviour of every century becomes conspicuous by the distinction of its standard.

In approaching the retrenchment, you must advance the light-armed troops, to draw away

the enemy's fire, taking care to support them with others. After the firing is begun, the centuries are to march up, and charge; if the first are repulsed, they must be succeeded by others before they have had time to fly, till at length, by force and numbers feafonably applied, you have overcome all obstacles. Your centuries that are drawn up four deep are likewife to arrive at the same time, provided you have forced the retrenchment in feveral places at once; after which, the enemy's battalions perceiving your line advancing upon them, and finding themselves exposed both in front and rear, will abandon their posts. You have then nothing to do, but to take possession of the parapet, and after that, to form your troops in proper order; during which time the enemy, instead of making any further opposition, will be retreating from you; because he imagines he has done all that he could.

But there is another method of attacking retrenchments *, altogether different from this which I have just been describing, and to the full as good; provided you are perfectly well acquainted with the ground, and that it is such as will admit of its being put in practice. When there is any hollow way, or bottom near the retrenchment, capable of holding troops under cover, you are to convey, without the enemy's knowledge, and during your march, a proper number into it; after which, you must advance in several columns with large

^{*} See plate 3. fig. 39.

intervals between them, to attack a part of the retrenchment at some distance from it: for these will attract all his attention, and tempt him to draw away his troops from other posts, in order to strengthen his disposition against the columns in this. As foon therefore as they begin the attack, all his forces will unite to oppose them; upon which your troops, that have been concealed, are fuddenly to fally out, and to affault the abandoned part of the retrenchment: those who are engaged against the columns, upon feeing this, will be thrown into a consternation, because they are totally unprepared for any fuch event; and, under the pretence of hastening to the defence of that part of the retrenchment, which is thus unexpectedly attacked, will inftantly defert the other, and fly.

The defence of retrenchments is attended with a great many difficulties, because it is a manœuvre that intimidates the troops: and although I have given my opinion in regard to what may be useful upon the subject, and have recommended such measures as appear the most promising of success; yet I am far from being an advocate for these works, and am rather disposed to exert my influence towards having them totally laid aside. My savourite defences are redoubts, the superior advantage of which I shall endeavour to demonstrate in the

following chapter.

CHAP. IX

Of redoubts, and their excellence in orders of hattle.

O justify by facts that high opinion which I entertain of redoubts, is a task

remaining now to be performed.

The arms of Charles XII. King of Sweden, were always victorious before the battle of Pultowa: the superiority they obtained over those of the Muscovites, is almost incredible: it was no unufual thing for 10 or 12,000 Swedes to force retrenchments defended by 50, 60, or even 80,000 Muscovites, and to cut them to pieces; they never inquired after their numbers, but only after the place where they might be found.

The Czar Peter, who was the greatest man of his age, bore the bad fuccess of this war with a patience equal to the dignity of his genius, and still persisted in fighting, on account of exercifing his troops, and inuring them to hardships. In the course of his adversities, the King of Sweden laid fiege to Pultowa; upon which the Czar called a council of war, where it was for a long time debated, and various opinions were given, concerning the step most proper to be taken in this exigency. Some were for furrounding the King of Sweden with the Muscovite army, and for throwing up a large retrenchment in order to oblige him to

Dd furrender,

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furrender. Others were for burning all the country within 100 leagues in circumference, to reduce him by famine; which opinion was far from being the worst, and was also most conformable to that of the Czar: others, however, objected to it, by observing, that it could never be too late to have recourse to such an expedient, but that they ought first to hazard a battle, because the town and its garrison were in danger of being carried by the invincible obstinacy of the King of Sweden, where he would find a large magazine, and a fufficient supply of every thing to enable him to pass the desert with which they proposed to furround him. This being at length the determined opinion of the council, the Czar thus addressed himself to them.

"Since we have come to a resolution to " fight the King of Sweden, nothing remains " but to agree about the method, and to make " choice of that which promifes the most suc-" cefs. The Swedes are well exercifed, well " disciplined, adroit under arms, and impe-" tuous in their charge: our troops are not inferior to them in point of resolution, but they certainly are in many other respects; it therefore becomes necessary to fall upon fome scheme that may render this superiority of theirs useless to them: they have frequently forced our retrenchments; and have always defeated us in the open field by dint of art, and by the facility with which they perform their manœuvres. In order then

to counterbalance these advantages in the enemy, I propose to draw near to him; to throw up several redoubts in the front of our infantry, with deep ditches before them; to fraise and palisade them, and to defend them with infantry; and after having erected these works, which will not require above a few hours labour, to wait for the e-" nemy with the rest of our army behind "them: he must infallibly be broken in at-" tacking them, must lose great numbers, and " will both be weakened, and in great diforder, when he attempts to pass the redoubts " to charge us; for it is not to be doubted, but that he will raise the siege to engage us, as foon as he perceives that we are within his reach. We must therefore march in such " manner as to arrive before him, towards the " close of the day, that he may be thereby " induced to defer his attack till the day fol-" lowing, and take the advantage of the night " to erect these redoubts."

Thus fpoke the fovereign of the Ruffians, and all the council approving of the disposi-tion, orders were given for the march, for tools, fascines, chevaux de frize, &c.; and towards the evening of the 8th of July 1709, the Czar arrived in the presence of the King of Sweden.

This prince, although he was wounded at that time, nevertheless informed his general officers, that he intended to attack the Muscovite army the day following; and accordingly, having made the necessary dispositions, and

D d 2

drawn up his troops, he marched a little be-

fore day-break.

The Czar had thrown up feven strong redoubts in his front, with two battalions posted in every one; behind which was all his infantry, having its flanks covered by his cavalry: in this disposition, therefore, it was impracticable to attack the Muscovite infantry, without having first carried the redoubts, because they could neither be avoided, nor was it possible, at the fame time, to pass between any two of them, without being destroyed by their fire. The King of Sweden and his generals remained to-tally ignorant of this disposition, till the moment in which they faw it: but the machine, as it were, having been once put into motion, it was now impossible to stop it. The Swedish cavalry presently routed that of the Muscovites, and even purfued them too far; but their infantry was stopped by the redoubts, which made an obstinate refistance. Every military man knows the difficulty that usually attends the taking of a good redoubt; that it requires a disposition on purpose; that a great many battalions must be employed, in order to be able to attack it in feveral places at once; and that, after all, their fuccess is extremely uncertain. Nevertheless, the Swedes carried three of these, although it was with difficulty; but they were repulfed at the others with great flaughter: all their infantry was broken and difordered, while that of the Muscovites, being drawn up in order at the distance of 200 paces,

paces, beheld the scene with great tranquillity. The King and the Swedish generals saw the danger in which they were involved, but the inactivity of the Muscovite infantry gave them fome hopes of being able to make their retreat: it was absolutely impossible for them to do it with any regularity, for they were totally in confusion; however, as it was the only remaining step which they had to take, after having withdrawn their troops from the three redoubts they had carried, and from the attack of the others, they proceeded to put it in execution. In the mean time the Czar called together his general officers, and asked their advice concerning what was to be done at this conjuncture: upon which Monsieur Allart, one of the youngest amongst them, without even allowing time to any of the others to declare their fentiments, thus addressed himfelf to his fovereign. "If your Majesty does " not attack the Swedes this instant, they will " be gone, and you will lose the opportunity." — This being acceded to, the line advanced in good order through the intervals be-tween the redoubts, leaving them guarded to favour their retreat in case of an accident. The Swedes had but just halted, to form their broken army, and to restore it to some order, when they faw the Muscovites at their heels. Nevertheless, confused as they were, they made an effort to return to the charge; but order, which is the foul of battle, being totally wanting, they were dispersed without opposition.

position. The Muscovites, not having been accustomed to conquer, were assaid to pursue them; so the Swedes retreated without molestation to the Boristhenes, where they were

afterwards taken prisoners. From hence it appears how practicable it is, by skilful dispositions, to render fortune favourable. If the Muscovites, who were at this time undisciplined, and dispirited likewise by an uninterrupted feries of misfortunes, owed the victory to their redoubts, what fuccess may not be expected from them, under the defence and direction of a nation experienced in war, and whose property it is to attack? If you act upon the defensive with them, you have, notwithstanding, as much advantage to the full as your enemy, by charging him by brigades, advanced in proportion as the redoubts are attacked. You can, moreover, renew the charge as often as you please, and always with fresh troops; which are waiting for your orders with impatience, and will make it with vigour, because they are exposed to public view, as well as supported; but above all, because they know their retreat is fecure. It is incredible, with what a panic armies are fometimes feized; fo far from being subject to which, you render yourself, if I may be allowed the expression, master of the favourable minute that is capable of deciding the event of battles; I mean that in which the enemy is in diforder. What an advantage therefore must it be, to be prepared for fuch an incident, with a

certainty

certainty of its coming to pass? - The Muscovites neglected to reap the benefit of all those opportunities which the excellence of their disposition afforded them; for they calmly suffered three of their redoubts to be taken before their face, without attempting to fuccour them: A circumstance that must have discouraged those who defended them, have intimidated the rest of the troops, and have augmented the audacity of their enemy. One may therefore safely venture to say, that it was the disposition alone which conquered the Swedes in this action, without the Muscovite roops having contributed to the victory.

These redoubts are also the more advantageous, in that they require but little time for their construction, and are moreover useful on numberless occasions: a single one is frequently sufficient to stop a whole army in a close or confined fituation; to prevent your being haraffed, or infulted on some critical march; to cover one of your wings; to divide a piece of ground; or to occupy a larger quantity than the number of your troops will otherwise per-

nit, &c.

A calculation of the time, and the numbers of men required for the construction of a * redoubt.

The excavation of the ditch, being 144

^{*} See plate 7. fig. 40.

toifes, will require, including th	10
trimmers *,	288 men.
To get fascines, — —	500
To get pickets, — —	300
To get palifades, — —	400
• •	
Total	1488

Fourteen hundred and eighty-eight will therefore be able to throw up a redoubt in the space of five hours.

C H A P. X.

Of spies and guides.

NE cannot bestow too much attention in the procuring of spies and guides. M. de Montecuculli says, that they serve as eyes to the head, and that they are equally as effential to a commander. Which observation of his is certainly very just. Money therefore should never be wanting, upon a proper occasion; for the acquisition of such as are good, is cheap at any price. They are to be taken

^{*} In the construction of the fort, in a preceding part of this work, the Marshal allows two diggers to one trimmer; and, according to his own calculation, the 288 men here mentioned, will be necessary only to dig the ditch of his redoubt within the time limited. This must therefore be a mistake, and there ought to be half as many more, i.e. 144, added for trimming; which makes the whole number amount to 1632, instead of 1488.

out of the country in which the war is carried on, felecting those only who are active and intelligent, and dispersing them every where; amongst the general officers of the enemy, amongst his sutlers, and, above all, amongst the purveyors of provisions; because their stores, magazines, and other preparations, furnish the best intelligence concerning

his real defign.

The spies are not to know one another; and are to consist of various ranks or orders; some to associate with the soldiers; others to sollow the army, under the disguise of pedlars: but it is necessary that all of them should be admitted to the knowledge of some one belonging to the first order of their fraternity; from whom they may occasionally receive any thing that is to be conveyed to the general who pays them. This charge must be committed to one who is both faithful and ingenious; obliging him to render an account of himself every day, and guarding, as much as possible, against his being corrupted.

I shall not insist any longer upon this subject; which, upon the whole, is a detail that depends upon a great variety of circumstances, from which a general, by his prudence and intrigues, will be able to reap great advantages.

C H A P. XI.

Of Signs.

Here are certain figns in war, which it is necessary to study, and by which you may form judgments with a kind of certainty. The knowledge you have of the enemy, and of his customs, will contribute a great deal to this. But there are some, at the same time, which are common to all nations.

In a fiege, for example, when, as the evening approaches, you discover towards the horizon, and upon the eminences, bodies of men assembled together and unemployed, with their front facing the town, you may take it for granted, that preparations are making for a considerable attack; because, upon such occasions, every different corps usually furnishes its proportion of men; by which means the assault is made known to the whole army, and all those who are unengaged, and off duty, refort to the high grounds towards the close of the day, in order to observe it from thence at their ease.

When your incampment is near that of the enemy, and you hear much firing in it, you may expect an engagement the day following, because the men are discharging, and cleaning their arms.

When there is any great motion in the enemy's army, it may be discerned by the clouds

of dust raised by it; which is, at the same time, a certain indication of something extraordinary being in agitation. The dust occasioned by foraging-parties, is not the same as that of columns in march: but then it is necessary that you should be able to distinguish the difference.

You may judge likewise which way the enemy directs his course, by the brightness of the arms, when the fun shines upon them. If its rays are perpendicular, he marches towards you; if they are varied and unfrequent, he retreats; if they dart from the right to the left, he is moving towards the left; and if, on the contrary, from the left to the right, his march is to the right. If there is a great quantity of dust in his camp, which appears to be general, and is not raifed by foraging-parties, he is fending off his futlers and baggage, and you may be affured that he will march himself prefently after. This discovery furnishes you with an opportunity of making your dispositions to attack him on his march; because you ought to know, how far it is practicable for him to come to you; as also, whether that is his intention, and what way it is most probable he will march; of which you are to judge from his position, his magazines, his preparations, the fituation, and, in short, from his conduct in general.——It is formetimes usual for him, to erect his ovens upon the right or left of his army: in which case, if you happen to be co-E e 2

vered by a finall river, and in that fituation, can discover the time of his baking any confiderable quantity of bread, you can make fome movement towards the fide which is remote from his ovens, in order to amuse him; after which you may fuddenly return again, and fend 10 or 12,000 men to attack them, supporting that detachment with your whole army, as fast as it arrives. This enterprise must be executed with fo much expedition, as not to allow him time to prevent its fuccefs, because you will have the advantage of some hours, before your first movement can arrive at his knowledge, exclusive of what more time may elapse, between his intelligence and the confirmation of it; for which he will undoubtedly wait, before he puts his army in motion: fo that, in all probability, he may receive information of the attack of his magazine, before he has even given orders for his march.

There are an infinite number of fuch stratagems in war, which a skilful commander may put in practice, with little, or even no risk; and whose consequences are equally as beneficial as those which attend a complete victory, by obliging the enemy either to attack him with a disadvantage, or shamefully to retreat from him, with an army even superior in strength.

C H A P. XII.

Of the qualifications requisite for the commander in chief of an army.

THE idea which I have formed to myself of the commander of an army, is far from being chimerical, but, on the contrary, is founded upon observation and experience. Of all the accomplishments, therefore, that are required for the composition of this exalted character, courage is the first; without which I make no account of the others, because they will then be rendered useless. The second is genius, which must be strong and fertile in expedients. The third is health.

He ought to possess a talent for sudden and happy resources; to have the art of penetra-ting into other men, and of remaining impenetrable himself. He should be endued with a capacity prepared for every thing; with activity, accompanied by judgment; with skill to make a proper choice upon all occasions; and

with an exactness of discernment.

He ought to be mild in disposition, and free from all moroseness and ill-nature; to be a franger to hatred; to punish without mercy, and especially those who are the most dear to him, but never through passion; to betray a constant concern at being reduced to the neceffity of executing with rigor the rules of military discipline, and to have always before his eyes the example of Manlius*. He should alfo banish that idea of cruelty which attends the infliction of punishments, and at the same time persuade both himself and others, that feverity is a term misapplied for exemplary correction, and the necessary administration of the martial laws. With these qualifications, he will render himself beloved, feared, and, without doubt, obeyed.

His province is vaftly extensive, comprehending the art of subfifting his army; of conducting it; of preserving it in such a state, as never to be obliged to engage contrary to his inclination; of chusing his posts; of forming his troops in a thousand different dispositions; and of feizing the advantage of that favourable minute which happens in all battles, and which is capable of determining their fuccefs. All these are circumstances of importance, and at the fame time as various as the fituations, and the accidents which produce them. --- In order to discover these advantages on a day of action, it is necessary that he should be disengaged from all other kind of business. His examination of the ground, and of the dispofition of his army, ought to be as quick as poffible: his orders should be short and simple, as, for instance, The first line shall attack, the fecond shall sustain! and so on. The generals

^{*} There were several Romans of this name: but, from the subject in question, it is most natural to imagine the Marshal means T. Manlius Torquatus, who put his own son to death for fighting without his orders, although he was successful.

under his command must be persons of very shallow parts indeed, if they are at a loss how to execute them, or to perform the proper manœuvre in consequence of them, with their respective divisions. Thus the commander in chief will have no occasion to imbarrass or perplex himself; for if he takes upon him to do the duty of the ferjeant of the battle, and to be every where in person, he will resemble the fly in the fable, which had the vanity to think itself capable of driving a coach. - Being therefore relieved from the hurry of the action, he will be able to make his observations better, will preferve his judgment more free, and be in a capacity to reap greater advantages from the different fituations of the enemy's troops during the course of the engagement. When they are difordered, and a favourable occasion offers, he must repair with all speed to the place, take the first troops he finds at hand, and, advancing with rapidity, put them totally to the rout. These are the strokes which decide engagements, and win victories. I do not prefume to point out exactly, either in what part, or in what manner this is to be accomplished, because it is what can only be demonstrated upon the spot, by reason of that variety of places and politions which the combat must produce. The whole is, to see the opportunity, and to know how to benefit by it.

Prince Éugene was particularly eminent in this branch of the art of war, which is the most fublime, and the greatest test of an elevated genius. I have applied myself to the study of his character, and can venture to say, that I am not mistaken with regard to it upon this head.

Many commanders in chief are no otherwife employed in a day of action, than in making their troops march in a straight line; in feeing that they keep their proper distances, in answering questions which their aids-de-camp come to ask, in sending them up and down, and in running about inceffantly themselves: in short, they are desirous to do every thing, and at the fame time do nothing. I look upon them in the light of persons who are confounded, and rendered incapable of discernment, and who do not know how to execute any other business than what they have been accustomed to all their lives; by which I mean, the conducting of troops methodically. The reason of this defect is, because very few officers study the grand detail, but spend all their time in exercifing the troops, from a weak fupposition, that the military art consists alone in that branch. When therefore they arrive at the command of armies, they are totally perplexed; and from their ignorance how to do what they ought, are very naturally led to do what they know.

The one of these branches, meaning discipline, and the method of fighting, is methodical; the other is sublime: to conduct the latter of which, persons of ordinary abilities

should by no means be appointed.

Unless

Unless a man is born with talents for war. and those talents moreover are brought to perfection, it is impossible for him ever to be more than an indifferent general. It is the same in other sciences: in painting, or in mufic, the professor must be indebted to nature, as well as art, in order to excel. This fimilitude extends to all things that pertain to the fublime; which is the reason that persons who are remarkably eminent in any science, are so scarce, and that whole ages pass away without producing even one. Application will re-fine the ideas, but can never give a foul; for that is the work of nature.

I have feen very good colonels become very bad generals: others again I have known, who were professed disciplinarians, and perfectly clever at the manœuvre of an army in camp; but if you took them from thence, to employ them against the enemy, they were absolutely unfit for the command of a thousand men; they would be confused to the last degree, and totally at a loss which way to turn themselves. If an officer of this stamp should come to command an army, as he would have no other refources than his dispositions, his views would extend no further than to fecure himself by them: he would also be perpetually confounding the whole army with his orders to explain them, and to render them more intelligible. The least unexpected circumstance in war may make the greatest alterations necessary: if, in consequence, therefore, he should attempt to Ff change change his disposition, he will throw every thing into a dreadful confusion, and be infal-

libly defeated.

It is requifite, once for all, that one certain method of fighting should be established, with which the troops, as well as the generals who command them, ought to be well acquainted; by which I mean the general rules for an engagement; fuch as, the taking care to preferve their proper distances in the march; their charging with vigour; and the filling up with the fecond line any intervals that may happen in the first. But this does not require any demonstration upon paper; it is the ABC of the troops; for nothing is so easy; and generals ought by no means to pay such great attention to it as most of them usually do. It is much more effential in a commander to obferve the countenance of the enemy, the movements he makes, and the posts he takes posfession of; to endeavour, by a false alarm at one part, to draw away his troops from another, which he intends to attack; to disconcert him; to feize the advantage of every opportunity, and to make his efforts at the proper places. But then, to be capable of all this, it is necessary that he should preserve his judgment quite free, and difengaged from trivial circumstances.

Although I have dwelt fo much upon the fubject of general engagements, yet I am far from approving of them in practice, especially at the commencement of a war; and I am persuaded,

perfuaded, that an able general might avoid them, and yet carry on the war as long as he pleased. Nothing reduces an enemy so much as that method of conduct, or is productive of fo many advantages; for, by having frequent encounters with him, he will gradually decline, and at length be obliged to fculk, and avoid you. Nevertheless, I would not be understood to say, that an opportunity of bringing on a general action, in which you have all imaginable reason to expect the victory, ought to be neglected; but only to infinuate, that it is possible to make war, without trusting any thing to accident; which is the highest point of skill and perfection within the province of a general. If then circumstances are so much in your favour, as to induce you to come to an engagement, it is necessary, in the next place, that you should know how to reap the profits of the victory which is to follow; and, above all things, that you should not content yourself with being left master of the field of battle only, according to the custom which prevails at present. The maxim, That it is most prudent to suffer a defeated army to make its retreat, is very religiously observed; but is nevertheless founded upon a false principle: for you ought, on the contrary, to profecute your victory, and to purfue the enemy to the utmost of your power. His retreat, which before perhaps was fo regular and well conducted, will presently be converted into a confirmed rout. A detachment of 10,000 men Ff2

is sufficient to overthrow an army of 100,000, in slight; for nothing inspires so much terror, or occasions so much damage, as that precipitation which usually attends it, and from which the enemy is frequently a long time in recovering: but a great many generals avoid making the most of these opportunities, from an unwillingness to put an end to the war too soon.

I could find great numbers of examples to support what I have just been saying, if I was disposed to quote them; but, amongst the multitude, I shall content myself with the

following.

As the French army, at the battle of Ramillies, was retreating in very good order over a piece of ground that was extremely narrow, and bordered on two fides by some deep hollows, the cavalry of the allies pursued it, at as flow a pace as if they were marching to an exercise; the French moving likewise very gently, and formed at the fame time twenty deep, or perhaps more, on account of that narrowness of the ground which I have just taken notice of. In this fituation, an English fquadron approached two battalions of French, and begun firing upon them; who, imagining that they were going to be attacked, immediately came about, and made a general difcharge; the noise of which so alarmed the whole French army, that the cavalry took to flight at full fpeed, and all the infantry precipitated itself into the two hollows with the utmost

Chap. xi. for the commander of an army. 220

utmost fear and confusion, insomuch that the ground was clear in an instant, and not a single

person to be seen.

Can any one, therefore, after such an in-stance, presume to boast of the regularity and good order of retreats, or of the prudence of those who permit a vanquished enemy to make them unmolested? Commanding officers who conform to these tenets, make but bad fervants, and promote very flowly the interests of their fovereign. Nevertheless, I do not fay they ought to give themselves totally up to the pursuit, and to follow the enemy with all their forces; but only to detach proper bodies, with instructions to pursue as long as the day lasts, and, at the same time, to keep themselves constantly in good order: because, after his troops have once taken to flight, they may be driven before them, like a flock of sheep. If the officer who is detached upon fuch an occasion, piques himself upon the regularity of his disposition, and the precautions of his march, it answers no purpose to have fent him; his business is, to push forwards, and to attack inceffantly; for it is impossible that any manœuvres can fail, but those which take up time, and give respite to the enemy.

Thus, without here referring the subject of retreats to a particular chapter, I shall conclude with observing, that they depend entirely upon the capacity of the generals, who conduct them, and upon the different circumstances and fituations by which they are attended.

Upon

230 Of the qualifications requisite, &c. Book II.

Upon the whole, a regular retreat is impracticable, except a conqueror is guilty of remissioners in profecuting his victory; for if he exerts himself properly in the pursuit, it will very soon be converted into a thorough slight.

LET-

LETTERS.

From the King of POLAND to Marshal SAXE.

HAVE a great inclination to raise a body of light horse. The regiment of hussars which I formerly had, were very far from being remarkable for their good behaviour in the war of the confederates in Poland; nevertheless the Prince of Weissenfels, and other general officers who have ferved in Flanders, tell of marvellous feats that have been performed by huffars, and earnestly urge my raifing a regiment of them. I am of opinion, that troops of Walachians will answer much better; for the twelve which you faw in Pomerania in 1713 or 1714, have always behaved extremely well; and I have heard great encomiums upon those which the King of Sweden had with him in Norway; fo that I am rather inclined to give them the preference, and this the more, because they are attended with less difficulty in raising, are less subject to defertion, and their horses are better. That dislike which my generals betray to them, proceeds, I believe, from the circumstance of their resembling the Polish troops, and you are no stranger to their aversion for those. I could not avoid taking notice, that as often as this subject was debated upon in your company, you remained filent; and, as I cannot attribute that that to ignorance, but imagine you must have some thoughts concerning the establishment and use of light horse, I must beg therefore that you will savour me with them, before I come to a determination about the raising of them.

Dresden, May 20. 1732.

AUGUSTUS.

The ANSWER.

SIR,

Was honoured with your Majesty's letter, bearing date the 20th of last month. My silence in the conversation which passed upon the subject of light horse, proceeded from my ideas concerning the importance of the object: but, in compliance with your Majesty's commands, I shall now speak my sentiments with that martial freedom, which you are so good as to require of those whom you condescend to admit to your friendship.

An army unprovided with light horse, or not having a sufficient number to oppose against those of the enemy, may be compared to a man armed cap à pié, who is to encounter a troop of schoolboys, without any other offensive weapons than clods of earth. This Hercules will presently be obliged to retire, struggling for want of breath, and consounded with

shame.

In 1713, your Majesty had twelve troops of Walachians,

Walachians, which performed great things, because the Swedes had no light horse; which was what gave us the superiority over them in the field; for the Walachians were perpetually infulting even their grand guards: our forages and pastures were never exposed to the least interruption or danger, whilst theirs were frequently attacked; neither could they make any detachments of which we had not immediate intelligence, and were in a capacity to defeat; at the fame time that they, notwithstanding the war was carried on in their own country, remained totally ignorant of ours .-Thus, Sir, you fee what occasioned our superiority in the field, and that it ought to be attributed to nothing but the light horse.

The King of Sweden was fensible of this, and procured from Turky some troops of Walachians, which were supposed to be the ruin of the Danes in Norway, because they had no

light horse to oppose them.

Your Majesty's general officers have persuaded you to send back the twelve troops of Walachians, and to raise, in their stead, a regiment of hussars; which your Majesty objects to, on account of the appearance of their having behaved ill during the confederacy in Poland, in the year 1715: but the reason of that is evident; which is, that all the Polish cavalry is light, and that, if hussars are opposed against hussars, the superiority of numbers on either side must decide the victory. Thus I have sometimes seen our hussars assaid to ven-

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ture

ture as far as a thousand paces, beyond the grand guards; and when we have made a detachment to support them, even that has been foon after furrounded by the Polish horse, and obliged perhaps to retreat engaging, for feveral leagues together: our forages were frequently alarmed; our convoys and baggage always attacked on their march; and we perpetually under arms, without knowing any thing of the enemy, but when we faw him; which are circumstances that at length must ruin an army; and which feem at the fame time to demonstrate, that however palpable any defects may be, the force of custom is so great, that there is no departing from it, to remedy them.—The general officers of your Majesty's army have lately recommended the levy of a body of hussars, because they experienced the use of them in Flanders; but a war with France is the very triumph of huffars, because the French have only a handful of them in their armies, and the Emperor has always five or fix thousand. This is the reason why the Imperialifts had that fuperiority in the field, just above mentioned; which, if superficially confidered only, does not perhaps appear to be of fuch great importance; but is notwith-standing of the utmost, in its effects; for without that, all the detachments you fend out *, are in danger of being attacked and defeated;

^{*} The Marshal here alludes to M. de Cerizy's detachment during the siege of Philipsburg, and to M. Berchivi's near Mentz after the siege, in 1734.

because the enemy, having intelligence of every motion you make, will be thereby always enabled to oppose them with greater. The Emperor's huffars moreover are perpetually within fight of your grand guards, and observe all that passes in the camp; if you make a movement of any kind, they fend immediate intelligence of it from the spot; and if you have a single party of horse abroad, they discover it; whereas theirs patrole about your army with all fecurity; a circumstance which is dangerous for you to attempt, because your irregulars are not fufficient in numbers to cover the country, and to gain the fuperiority in the field: they also pick up your deserters, and all sorts of persons whom they find coming from your army, which renders it difficult for your spies to pass undiscovered; and at the same time they deprive you thus of the means of getting intelligence with any frequency, which is a very effential point; they likewise prevent desertion amongst their own troops.——Their fuperiority moreover furnishes them with an eafy opportunity of fending, together with the hustars, skilful officers to reconnoitre your posts, who, by examining your situation, may be able

to form projects, very dangerous to your army. The affair of Luzzara in 1702, appears to me quite strange, and unprecedented; for all the wars of antiquity do not supply us with any instance, of one army lying in ambuscade at the distance of only a hundred paces from the other, waiting, without fire-arms, for the

favourable minute, in which it was to attack

the enemy's camp.

But, notwithstanding these encomiums which have been bestowed upon the Emperor's huffars, the Turks are much superior to them, both in lightness and numbers; infomuch that, when I was in Hungary, we never marched but in the greatest fear and uncertainty, had no manner of intelligence concerning the Turks, and these boasted hussars at the same time durst not venture out of fight of our grand guards; which are circumstances extremely dangerous to an army; because one is exposed to a multiplicity of accidents and inconveniencies, when totally deprived of power to guard against them, by the means of information. Ten thousand men may impose themselves upon a general, who is inferior in the field, for the whole army, provided the commanding officer executes his part, upon fuch an occasion, with proper skill and assurance. In short, without this fuperiority in the field, one marches as much in the dark, in a manner, as the blind.

But a fuperior number of light horse is, notwithstanding, far from being the most eligible remedy to obviate all these inconveniencies, because they are attended with a great expence; and, as you are not to lay any stress or dependence upon them for solidity, do not add to your strength in cavalry on the day of action. Large bodies of them upon the slanks of your army, are even dangerous; which we have but too often experienced, in the war with with the Swedes in Poland, and that even at the battle of Kalish*, which your Majesty is very sensible of. It is necessary therefore to have recourse to other measures. The French have established certain bodies of light horse, under the name of free Companies, to remedy these evils; which are posted in houses, in the environs of their camps, from whence they make some excursions: but, being no better mounted than dragoons, they are incapable of moving much from their quarters. And although they may contribute a little towards the ease and relief of the army, yet they are far

from answering the purpose effectually.

There is not a sovereign in Europe, who has it so much in his power to establish an excellent body of light horse, as your Majesty. Your troops have been accustomed for these twenty-fix years past, in different wars, to. fight against light horse, and to contend with fuperior numbers. The grand point is, to keep steady, and maintain their ground; which method of behaviour they have naturally learned, from a consciousness of the impossibility of flying upon horses so large and heavy as theirs. If they were mounted upon light horses, and lightly accoutred, I am perfuaded they would presently put a stop to the infults of the enemy's irregulars, which proceed from nothing but the impunity that attends them, and the facility of their flight. To prove which, I shall beg leave to introduce the following example.

^{*} The King of Poland was present at this battle.

At the camp of — in Italy, M. de Vendome being provoked at the enemy's huffars, who appeared every day in great numbers in the front of his incampment, declared he would fall upon some measures to chastise their insolence; upon which an officer belonging to the Spanish cavalry proposed to rid him very foon of them, provided he would permit a regiment to be fent for from the Spanish army, which was then incamped but a little way off. M. de Vendome consenting, the regiment arrived the same evening; and being difincumbered from its baggage, was, before daybreak, posted in ambuscade in the rear of the grand guards. The day after, the huffars came as usual again, when the Spaniards sallied out at full speed from their different quarters, and with their long fwords made a dreadful havock amongst them. The effect of this was, that not a fingle huffar was feen during the remainder of the campaign: which makes it evident, that they will never approach an enemy, but when they imagine it may be done with impunity. Their manner of retreat, moreover, is a precipitate flight; whereas they ought to retire flowly, and be able to engage at the fame time; which is what your Majesty's troops have been habituated to by long practice. A hundred of your horse will make a retreat in the presence of a multitude of these irregulars, because they have acquired experience, from an uninterrupted succession of events, and have learned to act from principle.

If then your Majesty approves of my reflections upon this subject, a thousand of the shortest-fized men must be chosen out of all your army, and such officers appointed to command them as are noted for courage, skill, and understanding. They must be formed into twelve troops; according to which division, a troop will consist of about eighty: so that if, by any means, there should happen to be a future deficiency of even thirty, there will still remain sifty; which is the usual number of a troop of cavalry in time of war, in all regular services.

I have already observed, that the smallestfized men are the best; because it has frequently been proved, that a horse which will carry a man thirty leagues in a day, whose weight does not exceed eight or nine stone, which is usually about that of a man of sive feet two inches high, will hardly be able to carry one of from ten to twelve stone, half the same distance; and, in swiftness, will lose from a hundred to a hundred and sifty paces in a thousand.

All their arms, as well as accoutrements, are to be extremely light. With regard to horses, your Majesty may furnish yourself with very good ones out of the strings brought by the Walachian dealers to Otakir, from Rougiac, from Lower Arabia, and from Romelic, which are infinitely better, swifter, larger, and higher-mettled, than the Hungarian ones: neither will they cost more than those from Holstein,

Holstein, which are made use of in the Saxon

cavalry.

The advantage refulting to your Majesty from the establishment of such a corps, will be very confiderable; because, although it is light horse, yet it will have the solidity of your best regiments, and be very well able to fight, either on foot or horseback. But it ought not to do duty in the army; because, if it be obliged to incamp in the line, to furnish escorts, covering-parties, grand guards, and foragingparties, it will be impossible for it to answer the purpose for which it is intended. It must always have feveral parties abroad, to reconnoitre where-ever the commander in chief shall order: and when the colonel of it has any projects in view, he is first to apply to him for his permission to put them in execution; after having obtained which, he must be left entirely to his own difcretion, and be by no means circumscribed or constrained in his measures.

Many generals are deterred from attempting enterprises which are very practicable, from an apprehension that their reputation depends upon the event: for which reason, I would recommend it to your Majesty, to have this regiment distinguished by the name of voluntiers; which answers to the idea of free companies, upon the French establishment. When the army is to decamp, they are to march off with the quartermasters and campcolour men, in order to scour the country:

but

but if the ground is such as not to permit their marching in the same route, they must be left to chuse another for themselves; so that they take care not to fall in with the army, but rather to make a little excursion of a few

leagues out of their way.

The ground for their incampment in the environs of the army, should be left to their own choice, with regard to its nearness to water, wood, pastures, and the driness of the fituation; for all these things contribute to the preservation of such a regiment, and support it in proper order for the laborious service that is required of it. If there are any towns, walls, or houses, within about a league's distance, in the front of the camp, it may be posted there: in which situation the army will remainat ease, and free from alarms; because no light horse belonging to the adversary will dare to pass it; and to attack it, will be a very dangerous undertaking, as it must be instantly fustained by the pickets. The enemy could not possibly make any such attempt, without being exposed to the worst consequences; of which the affair of Moskolini's villa in Italy is a melancholy instance, where Prince Alexander of Wurtemberg sacrificed the lives of so many brave fellows to no purpose. - But I am always falling into digressions. Nevertheless, your Majesty will perhaps excuse them, as they proceed from the importance of our subject, and my great opinion of the usefulness of this corps, which I am recommending. Hh

If your Majesty is convinced, you ought not to defer the raising of it till you have a war; because a new regiment, composed entirely of recruits, has no manner of steadiness or solidity; of which it is impossible that this can have too much. If, therefore, the forming of it is postponed till the moment in which you want it, your money will be only thrown away, and your expectations at the same time disappointed.

Maurice de Saxe.

Conclusion of one of the Count's letters to a friend, on the foregoing subject.

MY letter was fhewn, and criticifed upon by all the general officers: neverthelefs, I have all the reason to think, it was agreeable to the King, both by the answer which I received from him, and by the raising of the regiment, which was presently after begun. During these transactions the King died; but the Elector of Saxony continued the levy; and, moreover, approved so much of the plan, as to form two regiments upon it; one of which was conferred upon M. Sibilski, and the other upon M. de Milekau; two officers of irreproachable credit. The inferior officers were furnished, in equal proportions, by all the troops; and the number of small-fized men amongst them not being sufficient to complete them, about 600 hunters were added, to make up the deficiency. These two regiments, to which

which they gave the name of light horse, suftained all the drudgery of the war in Poland. But the most remarkable exploit they perform-

ed, is that which I am going to relate.

The Palatine Tarlo was field-marshal of the confederate army for King Stanislaus of Poland, and might have about 22 or 23,000 of the troops of that republic under his com-mand. As Saxony was not very strongly guarded, and as the Saxon troops were likewife at this time dispersed in different quarters all along the Vistula; the Palatine flattered himself, that it would be very easy to invade Saxony at Chargau, where there was only a post of 150 men. The Prince of Saxe-Weisfenfels, who forefaw his defign, went with all expedition to Posnan in Poland, which is twenty-four leagues distant from Chargau; where having affembled the two regiments of light horse, and about 1200 of the heavy cavalry, he put himself at their head, and, by forced marches, foon came up with the Palatine, who had been retarded a day in the taking of Chargau; immediately after which, he attacked him, routed him, and purfued him for thirty leagues. The Palatine in this action lost all his artillery and baggage; and the remains of his troops were so much disperfed, that it was with great difficulty that he himself escaped, together with fifty of them, to Koningsburg. The 1200 heavy horse were only present at the first charge, because they were never able to overtake the light horse, H h 2

who continued firing and pursuing incessantly for two days; and who made dreadful havock amongst the Polanders, crouded and imbarrassed in the defiles, which they were for-

ced to pass in their retreat.

When the troubles in Poland were put an end to, King Augustus was obliged to send his Saxon troops back to their own country; and not being able, according to the established laws of the realm, to keep more than 1400 Saxons for his guard, he gave these two regiments of light horse the preference over all the rest of his troops, reduced them to 600 each, and sending the remainder into Saxony, completed them to the stipulated number, with the addition of 200 of his guards.

In the month of April 1740, I proposed to the court of France, to bring over one of the regiments into the King's service, which the King of Poland would have given me; and I required no more than twenty-five livres per month for the recruiting-fund of the whole regiment, from the colonel down to the drummer; offering, at the same time, to bring them as far as Landau, at my own expence.

MAURICE DE SAXE.

To M. DE FOLARD.

ONE cannot fail, my dear Chevalier, of being highly instructed, as well as entertained, in a correspondence with you upon military matters; which subject you treat in the sublime,

fublime, with a grace and authority peculiar to yourfelf.

I have here fent you the fequel of my ac-

count of our transactions.

I arrived before Prague the 18th of November; and on the 20th the Saxons joined us, to the amount of 20,000 of the best and lightest troops. M. de Gassion likewise arrived with his command the same day; so that I was upon the right, M. de Gassion in the centre, and the Saxons upon the lest, whose heavy artillery was lest twelve leagues behind, for want of horses to draw it. The first days were spent in reconnoiting the place. The 22d I wrote the following answer to a letter which I received from the Elector.

SIR,

I received the honour of your Electoral Highness's commands to make a detachment of 1000 horse, 600 dragoons, and 5 or 600 foot, with some hussars, in order to pass the river Moldaw, and to raise a contribution of forage for a magazine at Conigsaal. I should obey these your Highness's orders; but my bridge upon the Moldaw not being completed, I should run the risk of losing these troops, if they were obliged by any accident to retreat; especially as it is not improbable, but the advanced guard of the enemy will arrive to-morrow: I cannot therefore send this body to the other side of the river, without exposing it to apparent danger. If the enemy is there, he

will certainly be fuperior, and prevent my being able to procure this forage; if, on the other hand, he is not there, a detachment of 300 horse, which has passed the river to-day by my orders, under the command of M. de Beauveaux, will reduce the inhabitants to a necessity of providing it, together with a sufficient number of carriages to convey it afterwards to the proper place.

I shall not trouble your Highness with any further account of the inconveniencies that would have attended the making of this detachment; but shall take the liberty to make a sudden transition to a higher detail, con-

cerning our fituation.

Your Highness will be so good as to recollect, that when we were at St Hyppolite, I assumed the freedom to say, that we ought to take post upon the Danube, at Crems, and to sortify the two sides of the bridge which was erected there; that, by so doing, we should prevent M. de Neuperg from taking post at Tabor, and facilitate the siege of Prague by M. de Gassion and the Saxons, which would then be carried on, without the enemy's daring in the least to oppose it; and that, by such a disposition, we should be enabled to preserve the conquest which we came to make of Upper Austria.

Your Highness thought proper to retire from the environs of Vienna, and march to Budweis, and from thence to Prague: but you will please to recollect, how much I objected

against

against this proceeding, and pressed the necesfity of our taking post upon the Tabor.—— You was too precipitate in coming before Prague; are unacquainted with places from your own knowledge, and have abandoned a post of great importance without necessity; insomuch that the loss of Upper Austria will be the consequence, and we shall be deprived of the conquest of Bohemia, unless we repair the fault by an immediate change of conduct.

We have at present near 40,000 men; we must therefore to-morrow throw bridges over the Moldaw, and march to meet the enemy, who is advancing towards Prague. With all this force we have nothing to fear, and shall be in a capacity to make fuch dispositions, as will enable us to wait the arrival of M. de Leuvitte's command, and of the Bavarians, who will join us in fix days: we shall then have the superiority in numbers, as well as in the quality of our troops. The reduction of Prague, and of Bohemia; the preservation of Upper Austria, and its provinces, and of the army, will be the consequence of this step; which if you defer taking, the want of subfistence will soon oblige you to abandon Bohemia, and to retreat into Bavaria; where the fame grievance will still subsist, and occasion the destruction of both the French troops and your own.

Excuse, Sir, the freedom I have taken, in making these representations; but I thought them necessary, because it appeared to me,

that you was inclined to intrench yourself, and to defend the Moldaw; which is a proceeding that may be attended with the most fatal consequences.

I am, with respect, &c.

In the night of the 24th, his Highness sent me the following order.

COunt Saxe will be so good as to pass the Moldaw as early to-morrow morning as he possibly can, and march as far as he shall think it confistent with prudence to venture; after which he will try to get what intelligence he can of the enemy, and transmit the same to his Electoral Highness. He will also endeavour to collect at the bridge of Konigfaal the necessary quantity of forage, grain, and meal, as likewise that of cattle.

He will take with him all the horse and dragoons that are in proper order to march, leaving their tents, baggage, and standards, behind: he will be followed by 700 foot, in which are included four companies of grenadiers: he will give orders for his men to be provided with bread for four days; and in cafe he has not a sufficient quantity for such a supply, he must send advice thereof to M. de Sechelles, who will furnish the deficiency.

He will take with him one of the marshals de camp, and will remain on the other fide of the Moldaw, as far advanced towards the enemy as he can without danger: he will also to-

morrow

morrow order out a detachment, composed of the Saxon infantry, and 1200 horse, to cover the high road towards the hill of Kuttenburg. The Count will be so good as to concert measures with the commanding officer of his detachment, and keep up a communication with him, that they may be a mutual support to each other, in case of need.

The husfars being to arrive to-morrow, or the day after, will march to join the detachment of Saxons, from which 200 are to be

fent to that of Count Saxe.

A duplicate of this order has been fent to Count Rudowski, that he may likewise be enabled to act on his side conformably to the measures which are taken.

The following is the answer which I wrote to his Highness.

SIR

I Received your Electoral Highness's commands, which I shall take care to put in execution: but you should have indulged me with one of your commissaries; for I freely acknowledge, that I am quite ignorant with regard to their province; and more especially too, as all my attention must be taken up in opposing the enemy when he arrives, which will probably be to-morrow, or the day after. Let every man be employed according to his proper profession. For my part, I cannot persuade myself, that the principal intention

of my being ordered upon this command is to raife contributions. The study to prevent the enemy from throwing succours into Prague, to sto oblige him to affemble his whole army, and to gain time for your taking that place, appears to me more essential, and will engage

the utmost of my little capacity.

If, by means of my expedition, it was practicable to obtain the forage and cattle that you demand, I believe it would be of fervice to us: but the fituation of things is too critical for me to be able to attend to that, and at the fame time to retard the approach of the enemy. Be fo good therefore as to allow me a capable commissary, on whom it may more immediately depend; or, in order to render that unnecessary, take Prague, and there you will have every thing in abundance.

I have the honour to subscribe myself, &c.

Early in the morning of the 25th I passed the Moldaw, between Konigsal and Prague, with fixteen troops of carabineers, twelve of horse, twelve of dragoons, four companies of grenadiers, and 800 battalion-men: but I had no sooner passed the bridge, than I received intelligence, that 14,000 of the Queen of Hungary's troops were advancing by forced marches, expected to enter Prague the day following, and were followed by the enemy's whole army; upon which I immediately wrote the following note to the Elector.

SIR,

I Have just now received intelligence, that 14,000 men are intended to be thrown into Prague to-morrow; we have therefore no other resource remaining than to escalade it. The 2000 men that compose the garrison will not be sufficient to resist our efforts, if we attack it in four different places at once: and with regard to the inhabitants that have been armed, although their numbers may be large, yet we ought by no means to be deterred from the enterprise by them. --- If then your Highness will affign two attacks to the Saxons, the one on your fide, and the other by the detachment which you ordered to cross the Moldaw, and that passed it, I imagine, about the fame time that I did; I will make the third on my side; and M. de Gassion, with his command, will make the fourth. If this project is not agreeable to your Highness, I will march to meet the Hungarian troops; and in case I find myself unable to maintain my ground against them, I shall retreat towards the bridge of the Saxons, leaving Prague upon my left; because it will be impossible to repass the river over that which is between Konigsaal and Prague. The Saxons must be ordered not to march too far, lest they should be cut off by the body of the enemy that pursues me.

I am, with respect, &c.

I then marched to Kundratitze, and from thence arrived, at two o'clock in the afternoon, I i 2 before

before Prague, in order to reconnoitre the place, and to determine where I should make my attack: immediately after which, I received the following billet from the Elector.

S I R,

I Defer answering yours any further, than just to inform you, that the bridge of the Saxons cannot be finished till to-morrow evening, at soonest; but I would not have you depend upon it till the day after, for fear of a disappointment.

I am, Sir, with the greatest esteem, yours, &c.

I immediately wrote the following answer.

AS the bridge of the Saxons will not be completed till to-morrow, I shall march to meet the enemy upon the road from Tabor, in order to prevent his advancing as much as I possibly can. It is so cold, that I can scarcely either hold my pen, or read what I have writ; I must therefore beg you'll excuse it; and am, with respect, &c.

I directly fent back M. de Mirepoix, with 1000 foot, to the bridge which I had passed, with orders to intrench himself upon an eminence that is opposite to the head of it; the intention of which was, that in case I was pursued, I might be able to retreat, and to pass the river under cover of his fire.——I marched back with the cavalry to Kundratitze, to

pass

pass the night there, knowing it to be a very good post for cavalry; from whence I detached some advanced parties on the road towards the enemy. At fix in the evening, I received the following order from the Elector.

THE bridge of the Saxons not being finished, Count Saxe will not be able to make his retreat that way.——We have determined to make a real attack at the port of Carsthor, and hope to carry it; in case it does not succeed, it will pass for a feint. Our troops are to sile off at night into the defiles, that they may be in readiness to begin the assault, at two or three in the morning: but we shall wait for two salse attacks, that are to be made by the French, and Count Saxe an hour before, in order to draw off the greatest part of the garrison from the port of Carsthor, where a picket-guard of a thousand men mounts every night.——At the bottom of the order was added,

I beg, Sir, you'll conform to these instructions, and not fail to make your assault, either false or real, according as you shall think proper, so that it be with a prospect of succeeding, and consequently without exposing the

troops unnecessarily.

Upon this I immediately recalled M. de Mirepoix, collected fome ladders, and prepared two beams with cords, to serve by way of a battering-ram. As soon as M. de Mirepoix arrived

arrived with his detachment, we marched to-

wards Prague.

As the part which I had before begun to reconnoitre was too strong, being the citadel, I moved on till I came to the port Neuthor. I made my disposition as I marched along; and as I approached the town, I heard M. de Gaffion's attack, at which time it might be about one o'clock. I then halted, and while the ladders were distributing, together with the powder and ball, I advanced, with Colonel de Chevert, to examine where we should make our attack. I conveyed myself into the ditch, which had no revetement on this fide: near Neuthor I found a bastion, thirty-five feet high, and reveted with brick; a ravelin upon the curtain, with two draw-bridges; opposite to which there was a kind of plat-form, occafioned by the rubbish and dung of the city, that was near as high as the level of the rampart. As I was pressed in point of time, M. de Gassion having already made his attack, I could not stay to reconnoitre the place any further; and as our ladders were long enough to reach the top of the wall, I resolved to escalade it by the flank of the bastion of that polygon, which was next to the port. I told M. de Chevert, that I should cover his assault with a fire from the plat form opposite, and that I should, at the same time, attack the drawbridge, and the ravelin. We were now returned to the troops, having done all this with fo much filence, that the fentries did not difcover

cover us. I then difmounted 600 dragoons, and 400 carabiniers; and having twenty troops of horse remaining, I posted them upon the high road, with orders to hold themselves in readiness to march into the town, the moment

that I had forced the gate.

The ladders being distributed amongst the first grenadiers, I ordered the first serjeant to mount with eight of them, and not to fire at all, whatsoever should happen; but to stab the fentries, if they possibly could, and to defend themselves with their fixed bayonets, if they met with any opposition upon the rampart. M. de Chevert, with the four companies of grenadiers, was followed by four troops of dragoons, and the pickets of the infantry. The ferjeant mounted according to his orders, without being feen by the fentries, till he had gained the top of the rampart; upon which the enemy hastened to the charge, fired a great deal, and came to close quarters with our grenadiers, who defended themselves with their fixed bayonets, and maintained their ground very obstinately, till M. de Chevert had mounted, who was presently followed by the four companies of grenadiers, and the remainder of the detachment: but as they were in a great hurry to enter, and crouded too much upon the ladders, a great many of them broke; which accident might have been attended with very bad consequences; however, I immediately fent an officer to reinstate matters, and to regulate the escalade; after which I hasten-

ed to the draw-bridge, and the gate, with eight troops of dragoons, whose fire had ferved to cover M. de Chevert's affault, and with the carabiniers; giving orders, at the same time, for the pickets of infantry to supply their place. The moment I entered the ravelin, and was advancing towards the gate, Chevert having forced the guard-house from behind, let down the draw-bridge for me; that which led to the ravelin, was also let down at the fame instant, and I made the twenty troops of horse enter at full speed, in order to take pos-fession of the streets. I had commanded the officers to put every man to death who difmounted to plunder; and likewise all the footfoldiers whom they found dispersed about the streets, of which I took care beforehand to advertise the infantry, as well as the dragoons, and carabiniers; whom I had difmounted, in order to prevent disorders.

The moment we had thus entered the town, the Saxons begun their two affaults at the appointed quarters with a very great fire. eight troops of dragoons at the port; lodged the pickets in the adjoining houses; posted two troops of dragoons on each side, upon the rampart, to cover my slanks; and marched with the four companies of grenadiers, and the horse, directly to the bridge of the city, in order to favour the entrance of the Saxons, whose attack was still continued with great vigour. When I arrived at the town-house, I found the Governor, who offered me the keys

of the city; immediately after which, an aid-de-camp from Marshal Ogilvie, to inform me, that he surrendered himself my prisoner. I marched on to the bridge, and, having secured the possession of it, waited upon Marshal Ogilvie, of whom, after the usual civilities were passed, I demanded an order, for the commandant of the citadel to deliver it up, which he gave me; I therefore immediately took possession of it, and the Saxons entered a few minutes after.

Prague is one of the largest cities in Europe, and requires above twenty battalions to defend it: the present garrison consisted of only 2000 soldiers, with 6000 armed citizens. It was taken the same day on which my grandsather took it in 1640; and surnishes the first instance of a town being carried, in the nighttime, and sword-in-hand, by the French, without being plundered.

Prague, Nov. 28.

Maurice de Saxe.

P. S. I have just received the following order from the Elector, which shews how well I was informed concerning the approach and designs of the enemy, and likewise what little time we had to lose.

Y OU will march with your detachment towards the enemy, at break of day to-K k morrow. morrow. It is proper that you should know, for your instruction, that the main body of the enemy was this day at Forchiel, Dnespech, and Beneschau, with the Duke of Lorrain; and that a thousand Croats, and some horse, were advanced, with an intention to be thrown into Prague, the very day we carried it. You will therefore take your measures so as not to expose yourself to any danger of being cut off. I am, Sir, your's, &c.

To the same.

T Have been filent for a long time, my dear L Chevalier, and it is also a long time since I have heard from you. But the fault lies on my fide, and I freely acknowledge it. Having been in a perpetual fcene of hurry and trouble, I was unwilling to make my distresses the subject of a letter; for my heart is too free and fincere, to avoid disclosing itself when I am writing to you; and this has been the occafion of my filence.

I am now at Deckendorf; and command in this country, fince our army passed the Danube at Staramhol. I have obliged the enemy first to quit Ober-Altach, and afterwards this post, by a stratagem pleasant enough; of which the following are the particulars.

I knew the enemy had fome huffars and light infantry in the paffes and defiles between Ober-Altach and me; but as their numbers

were finall, I imagined they were only posted there, to give intelligence of my coming, and that they would retire at my approach. Accordingly, I collected at Straubing a fufficient number of boats for eleven battalions, which I intended to convey upon the Danube beyond all their posts, and to disimbark below Deckendorf, in order to cut off the retreat of the two battalions that were there, and to prevent any thing from escaping. I had fent, the 24th of last month, different parties all along the river Regen, with orders to reassemble at the Danube the 2d of this month; on which day I imbarked them, and detached my cavalry, together with some infantry, to attack the enemy's posts upon the borders of the Danube, and to draw off their attention that way. During this time, I fell down the tide, and arrived before Deckendorf, without the garrison's knowing any thing of it till I appeared in fight. And I should have succeeded completely, if an accident had not happened to one of the boats, loaded with four companies of grenadiers, which split against a pile, and thereby detaining us for an hour, hindered our arriving at Deckendorf till it was growing dark: And as there still remained in the river, the piles of a bridge which I had burnt this fummer, I was afraid to risk the passage of the boats, thus loaded with troops, in the night-time; and therefore was obliged to land them above the town, which gave time to the greatest part of the garrison to escape by slight.

K k 2 However,

However, we took all their baggage, and a

few hundred prisoners.

But these are far from being the only advantages resulting from the enterprise; for this post ferved to cover the enemy's magazines upon the banks of the Danube, which have been totally abandoned, and have fallen, together with all their escorts and covering-parties, into the hands of my detachments. In one place, we took two hundred and fifty waggons; in another, a hundred and fifty thousand rations of biscuit; in a third, pontoons upon their carriages; in a fourth, a thoufand barrels of meal; and prisoners every where: in short, the whole country between this and Passau was cleared in two days. The enemy, moreover, having intended to lay fiege to Bruneau, had furnished themselves with fome artillery from Passau for that purpose, which they have fent back again in the greatest hurry, and have also augmented its garrison, which before confifted of only fix hundred men.

These are the circumstances that have attended this adventure; which I communicate to you, because I doubt not but they will as-

ford you some entertainment.

MAURICE de SAXE.

REFLECTIONS upon the propagation of the human species*.

FTER having treated of a science which teaches us the method of destroying the human race, I am now going to propose the means proper for facilitating the propagation of it.

There

* My intention at first was, not to have given these reslections to the public: but it is what I am at length resolved to do, in order to shew, how little they deserve that imputation of weakness and insamy which has been cast upon them by certain persons; some who have never read them, and who have no other authority for what they pretend to know, than barely hearsay. On the contrary, it will appear, that all the author advances upon this subject, proceeds from a good intention; and from an opinion, that to banish libertinism and debauchery, would be one method of promoting the propagation of the human race. If therefore he happens to be mistaken in his argument, can his error be reasonably considered as a crime?

I believe all the world will concur with me in opinion, that Marshal Saxe was a greater general than he was a civilian; and that these limited marriages which he recommends, instead of doing good, would, on the contrary, make a dreadful confulion amongst society; for how many children, void of both fortune and education, would perish through want, when abandoned by the caprice of their parents? Would it not be nuch better, for the world to be only inhabited by a few, who would enjoy ease and abundance, rather than by a multitude of wretches and vagabonds, who would renew the ravages of those barbarous nations which over-run and depopulated all Europe ? This liberty, moreover, of separation after marriage, s of very little consequence with regard to propagation; for t is no more than what is secretly practised in these times, alhough it may want the fanction of a law to confirm it. nankind diminishes in number, let us not attribute the cause of There is no kind of fubject whatfoever, which does not fometimes occur to one's re-

it to the fetters of marriage; for, alas! there is nothing to which we now-a-days make ourselves so little slaves, as to con-

jugal fidelity.

In former times, epidemical diseases prevailed, such as, the plague and leprofy, which made dreadful havock amongst mankind; and that which passes under the name of venereal, only replaces others that are now unknown to us. But all thefe calamities, to which human nature has been exposed, have never made fuch defolation in the world, or have been fuch enemies to propagation, as that contagious malady which reigns at present; by which I mean luxury. Formerly it was confined to the palaces of the great, but now it prevails even in cottages; and is that which multiplies our wants, and renders children a burden to their parents, because their maintenance and education become thereby attended with extraordinary expences. We were much happier in those times, when plainness and frugality were not accounted dishonourable. fon of a peafant is now brought up with more pride and delicacy than a prince.

If, moreover, we consider the prodigious number of persons, who live in a state of celibacy, from the pretence of being unwilling to leave children poor and unprovided for, we shall find it to be one of the causes that contributes most to the

diminution of the human species.

But, upon the whole, if we reflect how much all nature is fubject to revolutions, we shall be induced to imagine, that there are some ages, in the course of time, which are more or less assisting to propagation than others. Are not the productions of the earth diverlified? and is it not observable, that some years are plentiful, and others barren? If there are certain powers which occasion the sterility of the earth, is it not probable, that there are also some which have an equal influence over the animal creation? Let us not doubt it; especially as we see, that some climates are much more favourable for propagation than others; as, for instance, the province of Kiansi in China, where the women are so fruitful, that they are always with child, and bring forth three or four at a birth. This fertility peoples the country with such a multitude of inliabitants, that although the earth bears three or four crops in a year, yet its productions are not sufficient to support them; insomuch that the greatest part of the natives are obliged to abandon it for bread, and to get a livelihood as vagrants, in the provinces of Alia.

flections,

flections, when difengaged from all business. The extraordinary diminution of mankind since the time of Julius Cæsar, is a circumstance that has very often engaged my attention. It is certain, that the people almost innumerable, who inhabited Asia, Greece, Tartary, Germany, France, Italy, and Africa, have diminished in proportion as the Christian religion has been propagated in Europe, and the Mahometan in other parts of the world. This decline, moreover, continues visibly increasing every century. It is about fixty years since M. de Vauban made a calculation of the number of inhabitants in France, which he found to amount to twenty millions; but it is far

from being equal to that at present.

I am perfuaded there will one day be an abfolute necessity to make some alteration in our religion with regard to this circumstance; for if one confiders, how many institutions it establishes, which are an hindrance to propagation, this diminution of the species will no longer be fo furprifing. The frequency of marriage is very much prevented by it, and the flower of a woman's youth is often spent in waiting for a husband. But nature, during this time, is unwilling to be deprived of her dues, and commits trespasses by which the generative faculties become at length enervated: debauchery of every kind takes place; and the very name likewise of passing for a virgin, contributes not a little to this decline of which I am speaking. Add to this, that a woman who bears

bears no children to one husband, might notwithstanding to another; because married couples frequently grow irksome to each other, and live in a perpetual state of discord and uneasiness. In short, the whole system is repugnant to the law of nature.

According to the holy scripture, the first command which God gave to man was, *Increase and multiply!* Nevertheless, it is that, which, of all others, engages the least of our consideration.

If Nature is refused what she demands, the powers of engendering become lost; and out of a hundred women who have devoted themselves to religion in convents, there are scarcely ten that are capable of generation. How many therefore must there be in a state, that are absolutely useless, and unsit to discharge the important duties for which the Author of nature created them? Let us likewise examine, both in town and country, whether, with regard to the ability to bear children, it is not, in general, as ten to one, in favour of the unmarried against the married.

A legislator, who would form a system upon propagation, by the prudent establishment of such laws as were likely to contribute the most to that end, would lay the foundation of a monarchy that could not fail of becoming one day formidable to the whole world. He ought, in the first place, to eradicate debauchery; which, so far from being dictated by nature, is one of her most inveterate ene-

mies.

mies. It would be necessary, therefore, to inculcate by education, that sterility is one infallible confequence of it; which, after the age of fifteen, should be accounted dishonourable; and that the more children a woman had, the happier would be her fituation; which might very well be accomplished, by an institution, that the produce of every tenth day, whether it be from their revenues or their labour, should be consecrated to the mother. As her expectations, therefore, of future ease and happiness must increase with their numbers, she would be as industrious as possible in bringing them up. It should likewise be ordained, that every mother, for ten living children produced before a magistrate, should have a pension of a hundred crowns; of five hundred, for fifteen; and of a thousand, for twenty. This prospect for the common people, would be a powerful incitement to the taking care of their children; which every mother, from her youth, would not only make a capital point of herself, but would instil the same principle into her daughters

It may perhaps be objected, that the fathers would be afraid of being incumbered with too many children. But, in answer to that, they are not attended with much expence, fo long as they continue infants: and it is a general remark, that the more children a tradefman or peasant has, the better his affairs are carried on; because, from the age of fix or feven

years, they become useful to him.

But the most effectual means of peopling the world, would be, by establishing a law, that no future marriage should endure for more than five years, or be renewable without a dispensation, in case there was no child born in the course of that time: that such parties likewise as should have renewed their marriage so often as three times, and have had children, should be afterwards inseparable, and live together during the remainder of their lives. All the theologians in the world would not be able to prove any impiety in this system, because marriage was instituted by divine authority, on no other account but that of po-

pulation.

If the Christian religion is contrary to propagation, in rendering marriages indisfoluble, and in admitting of only one wife, the Mahometan is not less so, in assenting to a plurality: for out of the great number that are married to one man, there is generally but one who is in possession of his affections; and the others, who are converted into his slaves, remain useless with regard to propagation. The men exercise a tyrannical authority over this charming fex, because it is they who made the laws what they are in their present state, as being most convenient to their own selfish purposes. The Turks lock up their wives, and we, from custom, assume absolute dominion over ours; from whence proceeds that salfehood so notorious in women, because we have reduced them to the necessity of disguising their real thoughts,

thoughts, by not having confulted nature in the fettling of their department. If it was the established practice for them to be governed by inclination in the choice of their husbands, and to marry for a limited term, we should never find them guilty of practices that were either in the least unnatural, or destructive to the constitution: the season for love, when it arrived, would be totally confecrated to its rites; debauchery would be utterly abolished, because neither fex would be any longer tempted to fatisfy the demands of nature by fuch refources; and marriage, accompanied with fo much freedom and indulgence, would become an object of universal desire. The introduction of fuch a law would put a stop to the increase of this evil, which spreads itself over all the world, and continues, from day to day, to impair the human species. In order to ascertain the truth of this, we need only to consider the difference of a people where it has begun to make its first advances, comparatively with another where it is less established. Let us see, by a rational calculation, the disproportion it will occasion with regard to propagation.

If every individual female only brings forth one daughter, that lives to maturity; confequently, one woman will produce no more than one woman to the state, during her own, and every fucceeding generation. We will take fix generations, each to confift of thirty years, the amount of which will be 180; and allow that a woman will produce two females to the state in every one.

Issue of the first gene	ratio	n,	-	2	
of the fecond,			-	4	
of the third,	-			8	
of the fourth,	en .	-		16	
of the fifth,		-		32	
-of the fixth,	-			64	women in 180 years.

The difference, therefore, of a woman's producing two, instead of one, will be as I

to 64.

If we allow, that women in general may bring forth three, which grow to maturity in thirty years, it is no more than what is very common, for such as are happily married; considering at the same time how many there are who exceed that number. I shall therefore, in the following computation, suppose this to be at least the proportion, where women are influenced by affection, by a principle of religion, by interest, or by the laws of nature.

Issue of the first generation,		0	-	er .		3				
of the second,	-	-	ch ch	-		- 9				
of the third,	-	400		-	-	27				
of the fourth,	-	-				81				
of the fifth,	-	~		-		243				
of the fixth,	-		**	-		729				
i. e. 729 women in 180 years: if to which we										
add the like number of men, it will amount to										
1458; consequently, in the course of six ge-										
nerations,										
Ten women w	ill produce					14580				
a hundred,		on on		-	1	45800				
a thousand,	-				I	158000				
a hundred thou	ıfand,			•	1458	300000				
a million	9	2	0	1	4580	000000				

Thus,

Thus, upon a supposition that every woman will bring forth fix children in thirty years, one million, which is near the tenth part of the number that is in France, will have produced, in a hundred and eighty years, fourteen hundred and fifty-eight millions of fouls. This is a most amazing number: and although we should even take away three parts out of the four, the remainder will still be prodigious.



TREATISE

CONCERNING

LEGIONS:

O R,

A PLAN for new-modelling the FRENCH ARMIES.

PART I.

Of Discipline.

HE necessity of military discipline has never been so evidently proved, as since the beginning of this century. I shall not call to mind the missfortunes that have happened to us during the war of 1700, notwithstanding that we had on foot a prodigious number of forces, whereof the greatest part

part were experienced in war, and commanded by old officers. I shall only speak of those fingular events we have been witnesses of in Bohemia and Bavaria, and of the condition in which we have feen the fine and numerous armies return, fent thither by the King. I shall prove, that the want of discipline in our troops has been the cause of all our misfortunes; and that the constitution of our military state must, of necessity, have produced a decay of discipline. However, should any body, from a principle of ignorance, not perceive the immense advantages that arise from a good discipline, it would be sufficient to make him observe the alterations that have happened in the affairs of Europe, from the year 1700, as well with respect to the Russians as to the Prussians. We have scarcely known the first, if I may so speak, but by their barbarousness and defeats. A single man, but a great one, has, all of a fudden, made the face of that empire change. His unhappy experience, or rather the effect of a sublime genius, made him sensible of the impossibility there was for great states, not only to make conquests, but even to maintain themselves with a multitude of armed men, where they are led without rule, and obey without discipline. This he purposed to obviate, and it was brought about in a short time. Of the most brutish and timorous men he made prudent and intrepid foldiers. Their neighbours, who had formerly

formerly been their conquerors, had foon an opportunity to make proof thereof to their cost; and Europe, should their discipline long subsist, will be still better acquainted with the effects of it.

As for the Prussians, though the change has not been fo considerable among them, it may have affected us more, as we are nearer neighbours to them. They have wifely taken advantage of the leifure of a long peace, to bring their military state to perfection; and those troops, which most of our old officers, contemning discipline, looked upon, four years ago, as puppets, of no use in war, we have fince feen, with a very few old foldiers, in opposition to experienced troops, performing, in the battle of Molwitz, the finest manœuvres, and acting with the greatest bravery, that a body of infantry was ever known to do. Is not this fufficient to convince us, that nothing ought to be despised in our profession? All is essential in it; the least trisse becomes important to us by its object, and the most inconsiderable neglect becomes a capital fault. thought I ought to chuse the example of these two nations, rather than those of the Greeks and Romans, which are equally good: but modern examples make greater impression upon us: for the rest, men are the same in all ages; consequently, from the same circumstances, we ought to hope or fear the same effects.

I have hitherto spoke only of the advantages which a good discipline procures: It will be still more easy for me to shew, how many misfortunes the contrary draws after it. As the present state is that which concerns us the nearest, and as urgent necessity requires being changed, I shall confine myself to

what has happened in this war.

All the armies the King has fent into Bohemia, Westphalia, and Bavaria, went thither very well equipped, made a fine appearance, and were complete; they are returned in a ruined condition, exhausted, and have loft a prodigious number of officers and private men: nevertheless, we never have had there a general engagement; and the only one that has been a little confiderable, has had a good issue for us. We have seen our armies melted away by parcels. And indeed, the greatest part of the detachments sent to the war, the detached posts, the convoys that have been attacked by the enemy, have been beaten or surprised through the want of discipline in the soldier, or neglect in the officer. It was never known that a convoy marched in good order. The foldiers, constantly employed in pillaging, or at least keeping out of the fight of their commander, are used to straggle from the very beginning of the march; and there is scarce one officer to be found that minds it. If he attempts to keep them in order, the foldier, accustomed to insolence, disobedience,

dience, and impunity, doth neither more nor less for that, and steals away at the first opportunity. Neither is there a fingle officer to whom this happens, but owns himself, that it was not in his power to keep his men together. An abfurd and ridiculous answer, the consequences whereof must infallibly be fatal to a state! 'Tis the same with parties, posts, guards, and detachments. Either the foldier Araggles, or, if he remains with his troop, he marches in bad order, he halts every moment, speaks when he should be silent, and grumbles when he should obey. If the enemy appears, his fenses and judgment are quite confounded; he neither knows how he is to form or defend himself; it is all consusion: and if, by chance, any word of command is given, which feldom happens, you address yourself to deaf men and immoveable stocks, little accustomed to military exercises, or the obedience and the respect they owe to their officers. They discharge their pieces in the air, and, of necessity, are beaten: and this happens, because the foldier is not used to wait for command, and the punishment is never speedy enough among us; but, above all, because most of the officers neither know how to command, or make themselves be obeyed; and fuch as know it, oftentimes dare not do it, for fear of drawing upon themselves the hatred of their brother-officers, who imagine, that punishment occasions desertion; or of M m 2 being

being blamed by their colonels, who do not know the consequence of discipline, and commonly have no idea of it; because no body can get an exact information but by what he fees; and all that is feen is not sufficient to give him fuch a one. Men cannot judge justly of things but by comparison. Whoever has not feen the Prussians, or not served with them, cannot know how far their exactness and discipline goes, nor be acquainted with all the advantages resulting therefrom. Every body has feen the enemy's troops, in the battle of Dettingen, making their manœuvres in furprifing order, though unexperienced in war: but few people have taken notice, that that steadiness with which they behaved, was the effect of their discipline; because few a-mong us know the intrinsic value of it, and what effects it is productive of, when it is carried to a certain pitch. We have likewise feen our armies dwindle away, day by day, through maroding, and the hospitals, which are an infallible consequence thereof. We have not made one fingle march in Bohemia, that has not cost us a great many soldiers, either taken or killed by the enemy or peasants, when they lest their corps, on account of pilfering. It is impossible to make most of our officers comprehend the order in which troops ought to march: they have no notion of it; because, to say the truth, they never saw such a thing in France; and mentioning it to them,

is speaking an unknown language. All that is injoined them is, that they shall not suffer their foldiers to straggle. But this is not easy for them to execute. Few give themfelves the trouble to be diligent and alert; and there are some, to whom foldiers, on their endeavouring to make them return to their column, would give fuch abusive answers, as perhaps they would not have ventured to utter to their comrades. There are others, who, far from punishing their foldiers themselves, take their part against superior officers, in the presence, and at the head of their men. Even some have been seen demanding satisfaction, fword-in-hand, from field-officers, or their comrades, for having struck their foldiers which were found wanting in point of duty. This is certainly enough to discourage the most zealous in their profession, when they find that no body stands by and seconds them.

Such are the effects of our bad discipline. Unfortunately we have it every day in our power to experience the truth of what I have been advancing; let us at present endeavour

to find out the causes of it.

The military state in France consists of men that are reducible to four different classes. To the first belong the lords, and people of quality, designed for commanding the three others. The second comprehends the inferior nobility or gentry, from which all the subaltern officers are taken. The two last consist of peafants

fants and handicrafts-men, whereof we make foldiers. The French foldiery has at all times been composed thereof, and certainly there have been times when they were extremely well disciplined. Without going farther back than the days of M. de Turenne, we shall see, and ought to judge, by all that he has done, that the French infantry was the best disciplined and most indefatigable of all Europe; and how could he, had it been otherwise, have made fuch long and glorious campaigns, and obtained victories, which another, besides him, could not have hoped for? There are fuch marches of M. de Turenne, which it would be impossible for us to make at this present time. The fuccess of those extraordinary enterprifes he formed, how well foever his projects might be concerted, would never have answered his expectation, had he not been able to depend upon the exactness and obedience of his troops. We are not to think, that he alone hath been capable of putting and preserving the troops upon that footing. I know, that I am going to advance a paradox; but I shall maintain, that it is almost impossible for a general, let him have ever fo much attention, credit, and penetration, to discipline troops thoroughly, when they are badly constituted; 'tis in vain for him to apply all his care towards it, during one or even several campaigns; one fingle winter-quarter, where the troops, if I may speak so, are left to themselves,

themselves, is sufficient to destroy what he has done. Besides, a general never sees but the outside, and seldom the natural state of the troops; that which is called the spirit of the soldier, doth in no manner depend on him. I shall not at all speak of the considence they may have in his capacity, it may be an entire one; but it will not increase that which it is necessary they should have in their officers, and which is the surest motive of their obedience.

Consequently what we desire, depends on the particular officers, as well as that spirit which was in our troops in M. Turenne's time. The king had in those days many regiments less than what he has at present, and people of the first quality could not obtain the command of any one, till after they had ferved for a long while in the capacity of fubalterns, and been in a way of learning the detail of a body of men, the genius of the officers and foldiery, and had acquired of themselves commonly all that was requisite to get into favour. M. de Turenne had carried a musket in Holland. To be able to command men properly, 'tis requisite to know them beforehand, to have seen them in different situations, to be able, by a nice fcrutiny of the most minute operations of their minds, to distinguish their talents, to produce and employ them on proper occasions. There is no profession where all this is more necessary than

in that of war. 'Tis impossible, that a perfon who is wanting in any of these points, should understand how to enforce discipline, that is to fay, to form foldiers for the hardest and most fatiguing exercises, to deprive them of all kind of will, to reduce them to the most servile obedience, and to make of the most indocile men, machines, that are only animated by the voice of their officers. Certainly all are not possessed of this talent; they may be very proper for war without having it; and a person may be capable of making a good march, marking out a camp, making a fine manœuvre, and taking the best course in presence of the enemy, and yet be quite unfit for being a chief or commanding officer of a corps. It is therefore evident, that the command and discipline of troops ought not to be intrusted but with wise and experienced men, who, by their service, have been in the way of judging of the different parts of the fervice: nor do we ever, in governments, where the military constitution is founded on rational principles, fee that young people, without study and experience, are put at the head of regiments, who, far from knowing to govern others, don't know fo much as to conduct themselves.

People of the first quality and princes, are not ashamed in Germany to set out with carrying a musket, and afterwards to go through the several ranks, before coming to that of colo-

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nel; in short, to say all in one word, the Czar Peter was a drum.

From the year 1684, the number of our regiments has been so prodigiously increased, and so many people have been preferred to the command of them, that every body has thought himself intitled to apply for one. Moreover, the King has made a regulation, that as foon as a colonel becomes a general officer, he is to give up his regiment; and has made a great promotion of general officers; by which means, and the folicitations of people designed, by their birth, to come to the command of armies, we see none at the head of regiments but young people without experience, and often without application. Scarce are they come out of the college or academy; or have ferved two or three years at the head of a troop of cavalry, but they believe themselves ill used, if the command of a regiment of infantry is not given them. They foon obtain it, and hasten with precipitation to get themselves received. As foon as the ceremony is over, they begin to grow tired of their garrifon; they immediately make excurfions into all the neighbouring towns, to rid themselves of their disrelish for it; though this is expressly forbidden: but the regard that is thought due to a young colonel, prevents the commanders of places to inform the court of it; and what is most astonishing is, that the younger a colonel is, the farther this foolish N n complaifance

complaifance to him is carried. It is true, they return every week to exercise their regiment; but they foon perceive that they understand nothing of the matter; yet they are resolved to command, and, in order to hide their ignorance, contrive expedients for the future to fet aside the exercising of their regiment. As for the details, and the discipline of the corps, no care is taken to instruct themselves therein, and seldom do they endeavour to be acquainted with them; this being a dry and tirefome subject, they disdain it; and if there happens to be some major or lieutenant-colonel, that is steady and attached to his duty, can it be expected he will venture to contradict a colonel to his face, that is only come to please, not to punish, and by whom perhaps he expects to make his fortune? At last growing tired, and being quite furfeited with the foldiers, and content with having entertained the officers of his regiment genteelly, this colonel, at the end of two months, departs, with a firm resolution of returning as late as possible, to make a still shorter stay there, and to be less affiduous in the discharge of his duty. He arrives at court. The first thing he folicits, is the retreat of an old officer, that knows nothing but the fervice, between whom and an amiable young man, that has faithfully kept him company in all his parties of pleafures, he fettles the bargain; and there it is, that all the most important matters for the King's

King's service, or the retreat of the best officers of the regiment, are settled; it is in consequence of resolutions taken there, that surloughs and military favours are solicited, the King's authority is made use of, and the interest of his service sacrificed to the caprice, taste, and prejudices of the least judicious men. These are the people who are intrusted with the execution of the military laws, which demand so much severity, vigour, and justice; with the most important of all employments, and with what requires the most talents; because on this depend the good or bad dispositions of troops, and consequently the honour, glory, and welfare of the nation.

With respect to the lieutenant-colonels, and commanding officers of battalions, we should have no room to reproach them with want of experience, if age and time were sufficient for acquiring it: but how few are there that are such as they ought to be, and act in a proper manner? As they are taken from the body of subalterns, and as I cannot make mention of the one, without speaking of the others, I am going to begin with the sub-lieutenants, examining in particular all the different ranks.

The inferior nobility of the provinces, that is to fay, the most poor in the kingdom, make up almost all that part of the body of infantry, some *financiers* or gownsmen excepted, whose parents, out of complaisance to

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their children, and on account of their finding in them little capacity for following their own profession, suffer them to embrace that of war; in the foolish persuasion, that, of all others, this is that where knowledge and application are the least necessary. However, they commonly remain there but a little time. When they are in a condition to live at home without the King's favour, they, convinced of the vanity of their ambition, and disheartened by the fatigues of war, have not even the patience to wait for the order of the cross of St Lewis. As for the others, their conduct is

entirely different.

There is not fo much as one of the lower nobility in the most remote provinces of France, that is not defigned by his father, parents, neighbours, or friends, to enter into such or fuch a regiment, at twelve or thirteen years of age. He begins to be weary of his father's house; father, friends, relations, neighbours, all persecute the colonel of the regiment for which he is designed, to give him a commisfion. The colonel only asks what his pension will be, which commonly amounts to five, fix, eight, or nine hundred livres. This being examined into, he gives him an enfiguey. The young officer fets out with his firelock to repair to the garrison. At his arrival he finds an old captain, chosen by the parents to be his tutor; who begins by telling him, that he must be mindful to husband his money, and

be polite to the officers, gentle to the foldiers, and above all not to strike them: for the rest, not one word is said of all that it is necessary he should learn; and how could he acquaint him with it, he that is ignorant of it himself, and who knows neither how to instruct him in it, nor in what manner his instructions should be followed?

The lieutenant-colonel or the major, nevertheless, tells him, that it is necessary he should learn to perform the exercise; and thus all his military studies are ended. The young officer, from that time being eased of the yoke and authority of his father, hurried away by the follies of youth, and heat of passions, and encouraged by the example of his brother-officers, embraces with eagerness the indolent and loose life he continually sees those lead that are united with him; and according to the choice he makes of them, he passes it away in good or bad company, at billiards or coffeehouses. There he hears every moment grumblings at discipline, murmurs at authority, lamentations that the foldiers are too much fatigued by field-days or guards, complaints against such as punish them; and he himself will soon be intreated by his captain, not to give an account to the commander, of the faults, or even crimes of the foldiers of the company, which by chance may come to his knowledge. He will be told, that fo many have deserted for having been put into prison; that so many are in the hospital

on account of having been exercised twice aweek; that such a one has been ruined, by being compelled to complete his company; that such a one has been killed in such an action by the foldiers of his regiment, because he had struck one of them; that a French soldier is not to be beaten; that he must be governed only by gentleness and honour; and a thousand other senseless and out-of-the-way stories, which would appear incredible, were they related. Moreover, one fingle point decides his rise in the corps. Inquiry is made into his family's circumstances. If they are in a condition to supply him with the sum which is requisite to purchase the retreat of a Captain, i. e. fix thousand livres, he is then looked upon as a man that ought to be made much of, to be kept in the corps, and that will anfwer the views of the regiment; but if the case be otherwise, he is slighted, disregarded, and it would be matter of joy to see him superfeded, or another come over his head.

This picture will, I doubt not, appear overcharged to all fuch as have never ferved in the infantry as subalterns, nor lived in a garrison; but every body else will agree, that it is drawn after nature, and exactly true. To sum up all, this lieutenant, after seven or eight years service, aspires to a company; firmly persuaded, that the profession of an officer consists in mounting guard as often as ordered, and in nothing more; that there is nothing in the infantry deserving attention, attention, but the money that can be drawn from a company; and that it is upon this. footing the world ought to think: that his youth is passed, and that he is now in a condition to command a troop or company; that an officer cannot nor ought to carry his views any higher than the obtaining the order of the cross of St Lewis; and if he be of the number of those that are chosen, and consequently so happy as to be preferred to a lieutenant-colonelcy, and from thence to be a King's lieutenant, which is the ne plus ultra; these are the bounds of his ambition. For this purpose, he gathers together five or fix thousand livres, in which commonly the greatest part of his portion consists; becomes more affiduous in making his court to his colonel, that is to fay, in accompanying him in his parties of pleafure, and fucceeding by complaifance, in making what is called an agreement; and oftentimes, against the advice of a lieutenant-colonel, you see him soon prefer-red to a company Scarce has he got his commission, but he informs himself exactly of the character of the commissary, to know how many non-effectives he will allow him of his complement, how many men are to be on duty, in order to have an opportunity of making complaints, that they are too much fatigued by the service; he sends for the serjeants, to recommend to them lenity, and fecrecy in all that shall happen in his company, Strictly

strictly forbidding them to give an account of it to any but himself. This is the method by which this officer acquires the right of faying, I have ferved thirty years; constantly endeavouring (unless he is carried away by other passions) to save penny upon penny from the allowance of his company, in order to make himself amends for what it has cost him; to get wherewithal to retire and live quietly at home, when he shall have obtained the order of the cross of St Lewis; infomuch that one might muster up a whole army of these little pensioners, that are dispersed all over the kingdom; the greatest part of whom are neither decayed with age, nor difabled by any wounds received, and have quitted the fervice at the very time they were fittest for it. Certainly exceptions may be made to all that I have been advancing. But I speak in the general; and it is not to be wondered at: nevertheless, they are very nearly the same kind of men as composed the body of infantry under M. de Turenne: but the events that have happened in the military state since that time, must, of necessity, have caused this great change. the first place, the considerable increase made in the army, has put it out of our power to make a proper choice of officers; and if we have but a two years war that is a little brisk, we are obliged (though the lower nobility in France be very numerous) to look out for fubalterns among a fet of men never designed for forming

the military, I mean the citizens and tradefpeople. Besides, the pay of the officers is so scanty, chiefly in time of war, that it is impossible for any one to equip himself properly, and to support that rank of life, without having a pension of at least six hundred livres from his family. A great number of them, on that account, quit the service, or never enter it; infomuch that the poor nobility of the kingdom are obliged to keep at home in their province, where they grow clownish and con-temptible; whereas they might soon make a figure, in case they were in a condition of embracing the profession of arms. It is this reason likewise that contributes most to the discouragement of officers, and the decay of discipline. The pay of a captain of infantry commonly makes out three parts of his whole income. I do not know what it was formerly: but supposing that he had then no more than the half of what he has now, (which is incredible), his pay must still have been infinitely better, confidering that the price of provisions is more than double to what it was then. Men are influenced either by interest or honour; nay, the first motive is often confounded with the last. If this is the case, interest is always the most concealed and most powerful spring. Although the object of interest is the most remote from the point which they ought to aspire to, it is nevertheless the mark they aim at the more directly, as it can be done with such secrecy. Now, it is certain, 00 that that the discipline which ought to be enforced, does not always agree with the advantages officers would willingly make by the service: on the contrary, it may occasion some losses, which they should generously facrifice to the good of the service. This indeed is seldom done. But it more frequently happens, that the interest of the officer being contrary to that of

the fervice, the first generally prevails.

His narrow circumstances, the smalness of his pay, and the difficulty he has to fubfift, not decently, but barely, keep him in constant fear of losing a soldier, (for a soldier is the fortieth part of his substance). Thus all his care and attention are taken up by the meanest and most pitiful views of advantage. Hence that general impunity, the fource of every disorder. Therefore, among the bestdisciplined troops in foreign countries, we find that a captain has much better pay than in France. And what vigour in command, vigilance in the fervice, exactness in duty, emulation and defire to instruct one's felf, or gentleman-like behaviour, can there be expected from a man that is ever discontented with his profession, constantly employed about means to subfift in it, or to give it up, and waiting with impatience for the time of quitting it to advantage.

Distress of circumstances, of course, renders the mind stupid and abases the foul; it extinguishes courage, and infallibly benumbs all the

talents.

talents. In a word, an officer ought to live by his fword, and expect his fortune from it. A point of view therefore must be offered him, whose charms are powerful enough to make him facrifice the present interest to a future chance that slatters his ambition. To be blind with respect to this article, is as much as resusing to remedy the vices that would cause the loss of the infantry. So much

with regard to private interest.

As for emulation and ambition, an officer of infantry cannot reasonably have any. The only points in view that are proposed to him at present, are easily cast up. He may become a brigadier at the age of threescore, or threescore and ten: but of two thousand perfons that enter the service, scarce one comes to it. Nay, even when he is honoured with that rank, he has oftentimes nothing to fubfift on. He feriously dreads sometimes his being made a general officer; because, by refigning his former commission, he has nothing left him to live in a way becoming a private person, far less like an officer of that rank. At the same age, he may aspire no higher than to a King's lieutenancy, or a majority of five or fix thousand livres per annum, (how seldom does this happen!): these are the bounds. But let us consider, what are the means to come at them.

Some, convinced of the interest the colonel's family has, will facrifice the King's fervice

vice with a most cringing complaisance, and neglect every thing that would be for the honour of the regiment, in case they find it displeasing to the colonel. If a lieutenant or ensign has the good fortune to please him, then he is a man of ability, and the colonel is the first to conclude a bargain, or bring about the demission of an old officer, in order to get him a company, even to the prejudice of fuch as have been longer in the service. Others, uncertain of the fuccess which such cringing methods may have, or being too proud to submit, seek to fall out with him, contradict him in every thing, endeavour to form a party in the regiment, and, be it right or wrong, make it their business to be always of an opinion contrary to his. The consequence of all this is, that the regiment is without subordination and without discipline. The court becomes acquainted with it; and, in both cases, the colonel's family employs all its interest to get this lieutenant-colonel preferred. And as the one as well as the other know, that these are the most sure and shortest means to get preferment, and commonly have nothing else to expect, should they even serve twenty years longer; it is rare that they take any other means but such as I have been speaking of. Those are the most sensible and wifest, who, at the end of five and thirty years, finding their health impaired, and their substance entirely spent, exchange a tiresome and painful life,

life, which in the end neither promises advantage nor flatters ambition, for a little pention to retire withal.

It is in this manner that the career of all our officers ends. They enter the fervice with a foolish and immoderate eagerness, pass their days there in ignorance and criminal idleness, and quit it with an aversion and contempt but too well grounded: whereas, not fixty years ago, captains were found in many regiments of infantry, capable of commanding divisions of a line: and I have heard many veterans say, that some of them had turned out very good general officers, no longer than thirty or forty years ago; and that, at the revocation of the edict of Nantz in the year 1685, many of those that then quitted the service, were employed as general officers in foreign services.

As for those of our officers that are called Majors, (that is to say, majors, adjutants and subadjutants), of whom I have not yet spoken, they are the most useful part of the infantry; and perhaps we should, without them, have entirely lost the notion of discipline. That which renders them more attentive to the good of the service, proceeds from their having a more particular charge than the others, and no troop or company of their own, consequently no interest to thwart it. Nevertheless, the greatest part of them, either out of weakness, or complaisance to their bro-

ther-officers, whose reproaches or enmity they fear, are remiss in the service and in the discipline, keeping always those talents to themfelves, which, should they make use of them, would only serve to disturb their daily peace and comfort of life. Besides, their pay is so fmall, that they are all obliged, in order to fupply the unavoidable charges of their employment, to receive a certain fum from the captains; which they certainly would be deprived of, should a company, though ever so deficient, not pass as complete, at the review of the commissary; insomuch that the major and adjutants, whose principal duty it is to keep up the discipline, and see the military laws executed, are at present compelled to do just the contrary; to deceive the King every day, and to take a pecuniary pension of their brother-officers, as a falary for the unfaithful discharging of their duty. In every other fervice, the major is the third person of the regiment, and a quartermaster or adju-tant is charged with all the distributions, ac-counts, and the assigning of quarters. The adjutants among us have a very painful and laborious post, especially in campaigns; and as they are not allowed a sufficient subsistence, they no fooner have obtained the brevet or rank of captain, but they employ every method, even to the neglecting of their duty, to be appointed to a company; and we feldom fee now-a-days any more old officers in that

that commission; so that there is a necessity to bestow it on lieutenants that will condescend to accept of it, for obtaining the above brevet or rank.

As for the foldiers, I believe there can be none of a better kind than in France. We take them from the country and towns. The peasants are commonly well limbed, brave, and vigorous. The handicraftsmen have not always the same good qualities. Being brought up in towns, and enfeebled by debauchery and a loose life, they oftentimes are more intelligent than the others, but cannot acquire the fame qualifications, unless at the end of a certain time: and, in case they are properly officered, one may find among them fit persons to be employed as good non-commissioned officers, provided they can be brought to be prudent and tractable. For the rest, I think it a great error to believe, that our foldiers cannot be so obedient and well-disciplined as the Germans are. I have seen some of them among the Prussians, (whose daily discipline is one of the most severe, and where the least false step or neglect is instantly punished with an hundred lashes), remarkable on account of their neatness, address, and submission. It must nevertheless be owned, that they are naturally more curious, talkative, and fatirical, than other nations. From thence proceeds the little respect and confidence they have in their officers, (whose low circumstances, and indecent

indecent condition, fometimes put them below the foldier), especially when they are born of a creditable family, and have been in a way of receiving a certain education; which is common enough among them. Such is the character of French foldiers; and I own, that though they want the most essential qualifications for a foldier, which are obedience and submission, I know none of a better disposition, and that are more proper to be made

excellent troops.

This is all I could perceive and understand of the causes and effects of our want of discipline. Every body is fensible of the inconveniencies arifing from it, and fears the confequences that will thence enfue. The King is willing to obviate them; and it is with this view, that not long ago fo many wife ordinances and excellent regulations have been issued concerning the fervice. Let me however be allowed to fay, that custom always prevails, and often against reason. It is enough for us that a thing has been, or is still, to induce us to let it always remain fo. A man not only would be looked upon as a monster by the most clear-fighted, but his proposal univerfally condemned; which custom, of which the origin is unknown, has for ever given a fanction to, and which no body would dare take the liberty to attack. But is it fit to decide, with fo little examination and fo much prepossession, things that determine the fate

of princes, nations, and empires? It is fufficiently known, that most of our ordinances are judiciously drawn up, and properly digested; yet they increase so prodigiously, that it is impossible for an officer, be his application ever so great, to understand them well, and be thoroughly instructed in them. Besides, this multiplicity of laws has fomething in it unbecoming, one might even fay dangerous and prejudicial to authority; and it is a certain proof of their not being executed. It would be much more advantageous to the service, if fuch as are not regarded, were suppressed, which would confiderably abridge the code militaire, and if no new ones were published on the same subject, as they serve no other purpose but to publish impunity, and authorise disobedience. It is in vain to hope, that by ordinances it is possible to prevent all those cases that may happen. Circumstances vary infinitely, chiefly in military crimes and offences. In keeping to the letter of the law, one is oft-times extremely puzzled; and it is easy for fuch as know to interpret it, to change and elude its meaning. We may therefore conclude, that laws are in no manner sufficient to regulate armies; that there ought to be living laws at the head of troops; and that it is much more easy for princes to make good captains, than ordinances without flaws, or that stand in no need of amendments.

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Before I proceed to shew the means which appear most convenient for attaining this end, it is necessary I should say a word concerning the order of our battalions. Before pikes were quite disused, they were divided into three divisions; the right and left were composed of our musketeers, and the centre of pike-men. * According to this dispofition, every battalion had three colours, one for each division, in whose centre they were placed; by means whereof it was easy for every foldier, in an engagement or diforder, to know his place again; because every division, confifting only of two hundred men, which I suppose to have been drawn up four men deep, had but fifty in front; and thus it was extremely easy for a soldier, even the least intelligent, to know very near at what distance he was off from his colour; it could rarely happen that he should have lost view of it, but at the first fight he could know again his rank and file. Every one of these divisions made (as I may fay) a battalion, which rendered

^{*} The journal de Trevoux on this passage runs thus: "We have observed in this performance a point of our ancient discipline, that we have not been able to clear up, viz. In our battalions of old, then disposed by divisions, each division had their colour, in whose centre it was placed. We should not have ventured to call in question this fact, had we been very certain, that it was not inserted by another hand than the austhor, or left in through too much indulgence." We have been informed, that the author of the treatise on the legions has seen this controverted point, and has approved of it. For this reason we place it here.

the manuvre more distinct, and the command more easy; likewise whenever any movement was required, the usual manner of expressing themselves was by divisions, halfdivisions, and quarter-divisions. This proves that these divisions were looked upon as a separate body, in the manner as we now speak of half-ranks, quarter-ranks, half-quarter ranks, on giving the command to an entire battalion. These divisions had small-intervals between them; and, by means of this disposition, any one of the three could be broke, and rally, without causing the least confusion in the two others. Lastly, Every division made its manuvores as the battalions at present do. Since the suppression of the pikes, the infantry has remained almost in the same form. The strength of our battalions has little varied. The number of men in each never was much above or below fix hundred, and computing the companies at the commencement of a campaign, they may commonly be reckoned at that number under arms. Yet since the musket is become the fole weapon of the infantry, there has been no more any distinction in our battalions; they have made but one body, which, it has been thought, ought not to be separated in order of battle, and is made to march and make its manauvres as formerly a fingle division did. The battalions often, at the end of the campaign, have been reduced to the third part of the number of their men; and this P p 2 undoubtedly

undoubtedly is the reason, why it has been found expedient to join the three colours, and place them in the centre. But, in this disposition, they scarce serve at all the purpose they were designed for; which is, that they should be a point of view and rallying to the whole body of men that owns them. For, supposing our battalions to have an hundred and fifty men in front, it often happens, in passing a wood, hedges or thickets, and even when a battalion fires much, that the soldiers on the right and left, quite lose fight of their colours: if they are broke, they know not on which side to rally; if they are marching forward, they incline either to the right or the left, because they know not how far distant they are from the colours.

On rallying a battalion, there is a necessity that those of the right and left wait, till such as are nearest the centre be drawn up; because the great distance that is between them and the colours, prevents their knowing at the first glance where their company is to form. Besides, it is very difficult that an hundred and fifty men so much extended without any interval, especially when they must march close, can move without sloating. This obliges them to march very slow; and the battalions likewise have too often several of their men pressed out, and are thereby broke. There is no other remedy for preventing this accident than

by halting; and if this happens in presence of the enemy, the men run a great risk of being beaten: the soldier sinds himself out of his rank, and out of sight of his officer, and can thereby much easier conceal himself, or run away. To avoid these inconveniencies, the cavalry are drawn up by squadrons, without which it would be impossible to march properly. The third part of this treatise will shew why I have been obliged to make this digression.

PART II.

Of the Legion.

To obviate all those errors and inconveniencies I just have been speaking of, and in order to consult the advantage of the French infantry, and give it a more proper regulation than it has at present, it is absolutely requisite to make use of instant and speedy remedies, that are easy and suitable to the genius of the nation, yet at the same time such as may produce an effect that will answer the end. Nothing is certainly more easy than this. Marshal Saxe, in 1732, wrote a treatise on war, in which he says, "The Romans conquer"ed all nations," &c. as above, p. 33. l. 10. to the end of the page. As the business in hand at pre-

fent is to make an alteration in the infantry, M. Saxe proposes to form it into legions. We have had such in the time of Lewis XI.; and the military in France is so considerable, that their bodies of infantry may very well support the idea of that name: few other powers are in a condition to make as much of theirs.

Every legion therefore will confift of four regiments, every regiment of four battalions, every battalion of four companies, and every company of four fquads. Besides this, every regiment will have one company of fifty footgrenadiers, one troop of fifty horse-grenadiers, and another company of fifty light-armed men. Each troop of horse-grenadiers will confist of a captain, a lieutenant, a quartermaster, four brigadiers or serjeants, forty-four grenadiers, and a drum. All the other companies will likewise have a captain, a lieutenant, two serjeants, four corporals, four lancecorporals, forty grenadiers or fufileers, and a drum. Every battalion will have a commandant and an enfign; every regiment a colonel, a lieutenant-colonel, an adjutant and sub-adjutant; and each legion will have a legionary general, or general of the legion, a legionary major, or major of the legion, a chaplain, a surgeon, and a drum-major.

The horse-grenadiers will be armed and accoutred as dragoons are; the grenadiers and battalion-men in the manner they are now;

and the light-armed men will have fowlingpieces, a bayonet, and a cartridge-box only.

All the cloathing of the legion will be uniform, regulated in the manner as it shall please his Majesty; and the expence will be defrayed by the usual fund or allowance. A detail of the pay of the several ranks will be given hereafter.

From henceforth a legion will be in the place of a brigade, and be a perpetual one. It will subsist equally in time of peace and war, and have feveral advantages evidently superior to a brigade. It will incamp, march, and sight together, unless orders are given to the contrary. Nothing is more simple, nor more advantageous than its order, for facilitating any manauvre; and though it be a body consisting of more than four thousand men, comprehending the officers, it will notwithstanding be easier to move than a single battalion. The natural way of each part being divided into even numbers, will, of consequence, make it susceptible of all forms and disposi-tions. The method of commanding it is simple and uniform: An officer that has feen and commanded one, is able, in like manner, to command all the others, and fure to be equally understood by all of them. It will always fight with advantage, let the ground be what it will, on account of the disposition it can make, and the facility of changing it so instantly, according as need shall require. is is mixed with infantry, and cavalry formed and drawn from the fame infantry, and has as great attachment to it, as these two bodies hitherto have had aversion to each other. It is trained up to the siring and manœuvres of the infantry, and composed of old, brave, and known soldiers, whose age, wounds, and marches, render them somewhat unsit for be-

ing foot-foldiers.

Another confiderable advantage which a legion has over a brigade, is, that, on account of the latter being formed of regiments which oftentimes are entire strangers to one another, they have much less confidence in each other; there being a variety and a difference in their methods of performing the service. The same words do not fignify the fame things among them; and it rarely happens, that the beatings of the one are intelligible to the other. Sometimes they are of different nations, which makes a good understanding betwixt them still more difficult to be kept up. Besides, the regiments which compose the brigades are changed feveral times in a campaign; and those regiments which are not the oldest in the brigades, are as often obliged to change their method of fervice. The brigadier, who commonly looks upon any other regiments in the brigade besides his own, as strangers to him, doth very little, or fcarce at all, meddle with what concerns the detail of their fervice or discipline, and, as I may fay, is their brigadier only

only during the day of action. Thus the little knowledge that the corps and the chief have of each other, becomes at that time extreme-

ly prejudicial to the service.

I fet out with desiring, that no body will suffer himself to be prepossed against the large allowances I propose for a number of officers; for it will be seen at the end, that the expence of the legions is less, by some millions, than that of a like number of infantry on the footing it is kept at present. Without computing all the staff-officers who are not obliged to go a-recruiting, all the others shall receive no pay during the time of their absence: nor shall any relief be allowed, unless it be in extraordinary cases, and in case of sickness.

The general of the legion will have twelve thousand livres per annum, in time of war as well as peace: for it is absolutely necessary for a chief of a corps to make a figure, and have wherewithal to live up to his dignity. This will render the service more respectable in the eyes of foreigners, and be an agreeable object for all the military, who henceforth are in a way of aspiring to it. He will now, and at all times, be chosen from among the best lieutenant-colonels of the infantry, without having regard either to regiments or seniority. He must be a man of experience, prudent, and known in the troops to be such, and consequently respected. He is to know the service

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perfectly,

perfectly, and understand exactly the discipline and manœuvres of the infantry; and, above all, to have a talent for commanding. Supposing that the King transforms the hundred and fixty-two battalions he actually has in his fervice, into legions, which will make out thirty legions, and something above it; it is to be believed, that there will be found a sufficient number of good officers to be put at the head of the legions; and that, for the future, the number of such as are capable of this dignity, will, without proportion, be still

greater than it is at present.

The general of a legion will have the same rank, and do the same duty as a brigadier; which rank will then be suppressed. Like him, he will be promoted to a marechal de camp, whenever the King thinks proper to advance him; at which time he shall give up his legion. He will propose sit persons for all such posts in the staff as become vacant, up to the major, lieutenant-colonel, commandants of battalions, adjutants and subadjutants, as long as he is at the head of his legion: and he shall not absent himself from it, unless for very good reasons; in which case he may obtain the King's leave for it.

It is evident, that fuch an officer, at the head of a corps, will perfectly know every perfon belonging to it. Having no other interest than that of the service, and his fortune depending on none but the King and his capa-

city, the court will be thoroughly informed of all that shall happen in the infantry, how the colonels and the other officers apply to their duty, and of the different talents of each, which this general is to take care to cultivate and employ. Being respectable on account of his experience, service, and the figure he makes, he naturally will be feared and esteemed; which are two things absolutely necessary

for a chief of a corps.

The Colonel may be chosen in the manner as is now done, from among those young people who are designed by their birth for the command of regiments, and which may be continued to be fold; except that, on supposing the whole French infantry was formed into thirty legions, the King might oblige the twenty-three new colonels he is to appoint to be put at the head of the hundred and twenty regiments, to pay each of them thirty thou-fand livres, which is the ordinary price for the youngest regiments of infantry; and from the fix hundred and ninety-nine thousand livres, which this would produce, and one hundred and twenty or thirty thousand livres he is to add thereto, all the colonels might be reimbursed whatever they have paid above thirty thousand livres for their regiments, and all of them would then uniformly be reduced to that price. This would likewife open a way to preferment for young people of high birth, that are not very rich, and who it is proper Qq2

proper should be advanced, upon sinding that they have inclination and talents for it. The colonels might continue to propose sit persons for replacing the vacant commissions in their regiments, excepting all those of the staff.

In this manner the subordination would be very well established, and the colonel always preserve a proper authority in his regiment. He would be in a fair way of learning his profession, and asking lessons, and the advice of the general, who naturally is the person that is to give them; instead of being at a loss, as at present, from a wrong-placed pride, who to address himself to, (and sometimes he confults fuch as have an interest in deceiving him). He would find in the fame legion opportunity for emulation, on account of the other three colonels that ferve along with him; instead of being left, as he now is, to his own will alone, and every one, as I may fay, standing by himself at the head of his regiment, no example rouses his zeal, nor awakens him from the common lethargy. By this means, a great misfortune in the infantry would furely be avoided, which occasions the total loss of fubordination, and draws after it all the other military defects; I mean, the feeing of children just come out of college, at the head of corps, which, on account of their little experience, they are unable to command, and whose unbridled youth constantly prompts them

to things absolutely contrary to the military

profession.

The young colonels would always be under the regulations and instruction of a complete foldier; who would moderate their passions, form their ideas on principles they never could lose fight of, on their becoming general offi-cers; because these colonels must all at once be promoted to the rank of marechals de camp, and never be made generals of legions. Thus having got a good tincture of the fervice in the infantry, it would be easy to see whether or not they have the qualifications requi-

fite for greater commands.

On the footing things are at present, a colonel fometimes is preferred to the post of brigadier and marechal de camp, without ever any body having had an opportunity to examine his talents to the bottom, and knowing with certainty what capacity he has. I avoid speaking of certain dishonourable practices, as the felling of commissions, and others that have been made with respect to cloathing, which in the legion could not happen; all the world knows, that feveral colonels, in times past, have been accused of these things. The colonels will rank with one another in the legion, according to their feniority.

General officers trained up in fuch schools, obeying those rules given them, would certainly learn the art of commanding, and might be better instructed than they are at

present

present in the cavalry and infantry; for there are colonels of infantry that become marechals de camp, who never have commanded for twenty-four hours, nor even ever made a body of fifty troopers go through their evolutions. His pay will be three hundred livres per month. The lieutenant-colonel will continue as fuch. and be among the number of the hundred and twenty. The King at present will nominate to that dignity the first commanding officers of battalions of infantry: he will continue to affift the colonel in all his functions, and enjoy, in his absence, the same prerogatives he has. For the future, the oldest commandant of each regiment is to be preferred to that rank. There is no doubt, but that a lieutenant-colonel, who has a view of being preferred to the rank of general of a legion, and knows that his fortune depends not on the caprice of private persons, yet that he cannot come to the rank, unless his good service is certified to the King by the colonels of the legion as well as the general; I fay, there is no doubt but that fuch a lieutenant-colonel will facrifice every thing for obtaining that rank, and folely apply his mind to the discharge of his duty. He will not affect being in a bad state of health, nor neglect his profession, in order to obtain a King's lieutenancy, provided he finds himself fit to be preferred to a legion. And I am certain, that every lieutenant-colonel who then would ask preferment, ought to have

have his demand granted; for he would not make it but with very good reason. His pay will be two hundred and fifty livres per month. This is enough to make him live comfortably.

The commanders of battalions will likewise keep their commissions; and in order to increase their number to four hundred and eighty, the King might, without having regard to feniority, chuse the rest from among the captains of infantry, on their being proposed as above mentioned. These commisfions, for the future, will be filled up by chusing fuch as have most applied themselves to the fervice. They are to have two hundred livres per month, which will enable them to live in a genteel manner. This rank will offer the first opportunity for discerning better the talents of an officer, who, not having any longer a company of his own, will entirely give himself up to his duty and the discipline. On his coming to that rank, he will likewise be in a condition, on account of his age and functions, to instruct and apply himself more in whatever concerns the business of the soldier. Besides, it is certain, that, taking from the colonels, lieutenant-colonels, and commandants of battalions, the enjoying of companies, they will be made to give themselves entirely up to the service; they will be delivered from all complaisance or interest, which oftentimes causes them to trespass against discipline, and makes them act with respect to it, as our good majors

majors act at present. From among these commandants of battalions, lieutenant-colonels, and even adjutants and captains, hence forward, the major of the legion will be taken, whose employment will be the same as that of a brigade-major; which last commisfion, on account of the former, will be entirely suppressed. An allowance of fix thousand livres is proposed to be given him. This will appear a confiderable one, but his employment is not less so: there is a necessity of his being in a condition, even in time of peace, to keep horses suitable to his rank, and convenient for his employment, and that he may always be kept in readiness, and habituated to command on horseback. Moreover, he will oftentimes be obliged to go about from one garrison to another, whenever the legion is separated; and it is fit he should be no more a pensioner of the captain's, as the same is now practifed, under the colour of faving the expences of secretaries and others. In short, I thought it a matter of importance to make this employment desirable, which requires so much pains and abilities. Besides, there will be no more than thirty of them in the infantry; and it is to be hoped, that at present a sufficient number of officers will be found capable of being intrusted therewith, and that, in process of time, many more, in much larger proportion, will qualify themselves for this employment. To this time the majors, adjutants

adjutants and fubadjutants, have been, as I may fay fo, folely charged with all the most important and fatiguing duties of the fervice; nevertheless their allowances have been very infignificant in time of peace, and still more fo in time of war; which makes it impossible for many officers, that would be very fit for this employment, to apply to it. - The adjutants will remain such, and do the same duties they do now. They will have an allowance of eighteen hundred livres each; by means of which, and having a view of being preferred to the majority of a legion, they will not feek to quit their commission for a company, but stick close to their duty; which will become more agreeable to them to execute; because, instead of being constantly contradicted in their functions, as they are at prefent, they will find themselves supported and countenanced by the general of the legion.

As for the subadjutants, that post will be silled up by such ensigns and lieutenants as will be chosen for this new commission; which even at this time is executed by them, but without any allowance, and is the occasion that none apply themselves to it, and that frequent change is made in the persons that take it upon them. — They will have sixty livres per month. With such majors, adjutants and subadjutants, we may be sure, that the military laws will be equally and uniformly observed in every corps; because these officers are

the life of discipline, and will depend more on the general of the legion than the colonel.

As to what relates to the captains, lieutenants, and enfigns, they will remain such as they are at present, and do the same duty. The condition of a captain in the legion is better than it has been hitherto, considering the lessening of their ordinary expences, the augmentation of the gratification-money, and that which is given for bringing recruits to the corps. In short, all the officers will have wherewithal to live up to their ranks; but these views are the only means that can make them stick to their profession. Besides, it is certain, that, as they are a little more easy with regard to their allowances, they will not facrifice to a base lucre that duty, which now becomes of much greater importance to them.

As for the foldiers, it is known, that they are just such as they are made to be, and certainly they will be good foldiers. The captain will have it in his power to keep up his company, and so many people will be concerned in having an eye upon it, that it will be impossible for him to be wanting in it in the least point.

The light-armed men must always be chofen from the common companies of battalionmen; they ought to be young, alert, welllimbed, stout, and well-exercised in siring. These men will be of great service in the day of battle, and for all enterprises that require a quick and brisk execution. Their captain

must

must only have a brevet as lieutenant, and not be preferred to a company in the battalion, till after his having distinguished himself at the head of his company of light-armed men.

The horse-grenadiers are to be composed of all those brave soldiers that are known as fuch, and are no more in a condition to serve afoot, either through infirmities or wounds received. They are likewise to be taken from the companies of the battalion, and their officers from the regiment, with approbation of the colonel. This troop will be of great use, not only in giving to all the officers of the legion an idea of the service of the cavalry, but ferve as detachments, where there is need of light troops, that can be depended upon. Besides, this troop must always be complete, and can march upon occasion where necessity requires only a finall body of cavalry. But, above all, in the day of a general action, it will be infinitely useful, and I do believe it in fuch a moment capable of deciding the fate of a battle, as will be shewn hereafter. The captain will have the fame allowance as a captain of dragoons has now; and thus he will be very well for a captain of a regiment of foot. The number of grenadiers on foot will be less than they are now, and will be at least as good. I hope the light-armed men will ferve to spare them a little; considering, that now-a-days a general officer can scarce R r 2

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make a step unless he has a convoy along with him, nor take a walk, where grenadiers are not ordered to march and attend him, without being of any service. By means of the light-armed men they will be delivered from these unserviceable fatigues, and we shall preferve people that are only for occasions of importance, and where there is a necessity for men of known bravery and steadiness. Thus they will become still more serviceable than they are at present. Their captain will be he that has ferved the longest of any in the regiment; and by his rank he will naturally be of an age sufficient to serve still better than the most part of those now-a-days, who are at the head of a grenadier company.

PART III.

Of the Appointment of the Legion.

Before I determine the order in which a body of men are to march, form, make their manœuvres, fight, and incamp, it is necessary to examine the nature of their arms, and how they are composed; to consider which is the chief use they may most commonly and usefully be employed in; to give it, agreeable to this, a convenient and advanta-

Part III. Of the appointment of the Legion. 317

geous disposition; and from thence to draw all the principles of that order in which it is to fight, form itself, make its manuveres,

march, and incamp.

The legion is a light body, mixed of infantry and light horse. The infantry is of two kinds, one part heavy, the other light. I be-lieve one may express one's self thus on this head. The common infantry is that which makes out the principal part, and, as I may fay, the whole legion; for, of three thousand eight hundred grenadiers and foldiers it is composed of, there are three thousand two hundred foldiers, armed and accoutred in the manner as those of our regiments. It is in consequence of this number, and the fort or nature of the infantry that composes the legion, that it must be looked upon as a corps, whose principal destination ought to be to fight in line. It will doubtless be made use of in the line of battle to several other purposes; but these are subsequent ones, and of less importance than the former. It is therefore needful to find out the best disposition in which it can be put for fighting in line, and to lay down to these different armed troops the method to support and assist each other reciprocally.

I have faid above, at the end of the first part of this treatise, and I believe have proved it, that the order in which our battalions at present are drawn up, is bad, and contrary to

all good principles. Their great extent renders it difficult for them to move, and extremely liable to floating, disorder, and confusion. Our troops having then frequently to do with others, whose fire is very formidable, to make ours correspondent with theirs, we have thought proper to adopt the same method as foreigners. Whether this is a right or a wrong way, I shall not determine here. It is sufficient to say, that we intended by this means to have our fire as brisk as that of the enemy. Therefore it will be proper to accustom them to be drawn up four deep, as we ordinarily do, in order to avoid that floating, and flowness of motion, which thin and extended corps are liable to. The four battalions of which a regiment will confift, will each be at the distance of twenty feet from one another, and the distance between each regiment will always be double. Whatever motion a battalion makes, or whatever ground it meets with, nay, let any accident whatfoever happen to it, all this, by means of these intervals, will have little or no influence over the rest of the regiment or of the legion; and as the intervals are very fmall, they will still draw the fame affistance and defence from each other: for it cannot be supposed, that the battalions of the enemy will venture to break themselves to get between two battalions, the distance being too small. The troop of horse will be. divided into two, each division consisting of twentytwenty-four grenadiers in two ranks; one of which will be placed at the distance of fifty paces in the rear, covering the interval of the two battalions on the right; the other, at the fame distance, covering that of the two battalions on the left; and all the company of foot-grenadiers covering the interval in the centre of the regiment. This disposition will be of prodigious advantage in an engagement. The legion being chiefly a body of infantry, will commonly be drawn up opposite to the infantry of the enemy. It will be more useful, and preferable in that case, that the grenadiers, who are choice men, experienced and of known bravery, be placed beyond the reach of the enemy, who fometimes fire before the engagement begins; and as they would not be of greater use than the common battalionmen, (the horse-grenadiers would be of less fervice), if they were drawn up in the line, it is for that reason proposed; to place them at fifty paces distance, in the rear of the battalions. Another advantage that will arise from this disposition is, that the men in the battalions feeing behind them, and within their reach, three parties of their comrades, on whose steadiness and intrepidity they can rely, and which oftentimes they have been witnesses of, will be satisfied, that they will be well supported; and that, in case of necessity, their retreat is fure; and therefore will fight with much greater resolution. They likewise know,

that these grenadiers, who look upon the legion as their native country, and upon themselves as having the honour of it to keep up, will not suffer, without punishment, any soldier to take to slight, but make him repent his cowardice, at the expence of his life. Thus, we shall have a method almost certain, of keeping the men up in their ranks, in the face of the enemy, without posting in the rear of the battalions such a great number of officers, who commonly are of no service; because they being on foot, and sewer in number than the deserters, instead of stopping them, are themselves carried away, without being able to

withstand their impetuosity.

By this method of retrenching part of our officers, we shall, notwithstanding this diminution, follow that universally-received maxim in France, viz. That the valour and goodness of our infantry depends upon the great number of officers that are at the head of our battalions, as it is only there that we make use of them; for, in our detachments, we never order more than two officers to fifty men. cording to our disposition, we need put but few in the rear of the legion, and at least as great a number in the front-rank as we do at present. As for the light-armed men, I suppose that they will have proper arms, and be thoroughly exercifed to fire well, and to load briskly. When the legion is drawn up in order of battle, they will post themselves a hundred and

fifty

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fifty or two hundred paces in the front, in hedges, houses, thickets, and in all other places that shall be found proper to post them in, so as to be within reach of siring on the enemy. It will be impossible for battalious that are exposed to their fire, to stand it long without being prodigiously incommoded; and in that case, they have no other course to take, than to retire or advance; for should they send any party of horse to dislodge them, they must encounter a shower of musket-balls from them and the legion, which will force them to fall back upon their own infantry with precipitation. If the enemy retires, the light-armed

men immediately advance upon them.

Thus the enemy will be in a very dangerous situation, the event of which the circumstances of time and place must decide. Their only means to get rid of the lightarmed men, will, on the contrary, be, to march up to them, provided the artillery doth little execution, and the fire of the battalions do not carry fo far, nor fo just as theirs. They will in that case receive, upon their march, an incredible fire from the light-armed men; which they will continue, retreating at the fame time, and rallying in the rear, or in the intervals of the battalions. Hereupon the battle begins; and if the legion is forced to give way, its retreat is covered by the foot and horse grenadiers; who, should the enemy be disordered by the charge, (which very often S f happens happens

happens in fuch cases), may alter the face of affairs in a moment, and gain a completer victory. For it is impossible, that a body of men that are a little in disorder, and find themselves attacked by an excellent cavalry and good infantry, can rally fo quickly as to withstand the shock. And it is certain, that this reason obliges the enemy not to disperse, and to advance gently; by which means the infantry of the legion can rally with greater facility.

If, on the contrary, the legion overturns the enemy's infantry, the light-armed men, and the foot and horse grenadiers, advance immediately through the intervals, and it must be irreparably lost: the defeat is total, without there being any necessity for the legion to change the least thing in its order of battle, or of putting itself in any disorder whatever.

There is likewise no doubt, but that, by means of the light-armed men being posted in the front, the whole army may march and move quietly behind them, without the enemy being able to discover its motions: for the continual and well-adapted fire they will be accustomed to make, will certainly keep off the most prying, let them be ever so bold; and the foldiers being taken up with observing them making their manauvres and firing, will not be able to diffinguish the proceedings nor position of the enemy, and on that account

Part III. Of the appointment of the Legion. 323 count be the more quiet and steady in their ranks.

The legion thus disposed, will have still greater advantages, which the legionary general will know how to make proper use of, according as occasion shall require, and which would be too tedious to relate here. What I have been faying fufficiently determines the order in which it should form, march, make manauvres, and fight.

I am of opinion, that there are certain principles for drawing up a body of men in order of battle, and putting them in the most advantageous order for the use they are defigned, and that it is necessary they should ne-

ver be departed from.

In the first place, Great care ought to be taken, that the commanding officer of each corps or body of men, be easily feen and heard, and that he may be able to observe the smallest motions the officers and soldiers make that are under his command.

Secondly, That the subaltern officers be equally distributed every where, and that there always be some of them in every place where they can be useful, in all motions or evolu-

tions that the corps performs.

Thirdly, That those men that mess and incamp together, be drawn up together in action; because, being thereby more intimate, and more closely connected with one another, there will be a greater inducement for them

S f 2

to support and affift each other reciprocally. Besides, they will be more asraid of incurring the reproaches and flurs that would always be against them, should they behave improperly.

Fourthly, That all the foldiers be drawn up in fuch a manner as to enable them readily to know again their rank and file, on purpose that they may, with more expedition, be formed again in order of battle, in case any accident should cause a disorder.

In the fifth place, That they be within a proper distance, so as to be always under the eye of the respective commanding officers; because they must have a greater confidence in them, as their good or bad qualifications are more known to them, than the others; and as their actions will be by them more feverely punished, or more certainly rewarded.

In the fixth place, That each body of men be divided in fuch a manner, and its divisions fo distinctly marked, that it may be easy for the first officer, that shall have a right to command the corps, to know them, to diftinguish them, and put them into motion.

In the seventh place, The best and most experienced foldiers must be posted in the most dangerous places, as in the front-ranks and flanks, which commonly are the least covered, and more exposed than the rest of the battalion, and are oftentimes the first that are unsteady and that begin the disorder.

In

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In short, That the order in which a body of men is drawn up, must be fixed, and as little altered as possible, in order that every body may be the better instructed in the different motions they have to make according to the different circumstances. In consequence of all these principles, I give here the order in which it is proposed a legion is to be drawn

up.

The custom of calling troops, be they legions, regiments, or companies, after the names of provinces, or commanding officers, ought to be abolished, it being subject to change; whereby, after a certain time, it can no more be discovered in history, which were the troops that signalized themselves by memorable actions, and thus there will be one motive less for emulation. It is more simple and convenient to name the legions, regiments, battalions, and even the companies, by the first, the second, the third, sec. and I shall henceforth only make use of these terms.

The thirtieth legion will, in time to come, be as much known in history as the first; and we shall easily call to mind its actions, as soon as we see or hear it named. It must be allowed, that there is something noble and more grand in this simplicity, than in the custom now prevailing, of using particular names.

The first regiment of the legion will take post on the right, the second on the left, the third on the right, and the fourth on the

left, as the same is now practifed in posting regiments in brigades. The battalions of the fame regiment will take rank in the fame manner among themselves, the companies of the fame battalion likewise so, and the squads of the same company in like manner; by which means one may at the first view know where the third squad of the first company of the fecond battalion of the fourth regiment is posted, and so for the rest. This is much more easy to be recollected than particular names, which may have a likeness to one another, or are difficult to be remembered, far less pronounced; and it is likewise infinitely more commodious for him that commands. as well as the foldier.

Whenever a legion is drawn up in order of battle, the legionary general (the general of the legion) and the major post themselves advanced farthest in front, before the interval of the centre; the colonel advanced before the interval of the two battalions on the right of his regiment, and the adjutant near him; the lieutenant-colonel advanced before the interval of the two battalions on the left, and the fubadiutant near him. If they are the regiments on the left, the colonel will be on the left, and the lieutenant-colonel on the right. The commandant of the battalion takes his post advanced before the centre of his battalion; the captain of every company on the right or left of the front-rank of his company, according

as it is posted on the right or left; the lieuenant on the other side of the captain, on the left of the rear-rank of the company; excepting the lieutenant of the fourth company, who posts himself on the right of the second rank, and the colours will be his fileleader. The lieutenant may thus, in case of need, take them or defend them. The first erieants of the two first companies will be on the right or left of the rear-rank behind their captains, in order to be at hand to receive their orders, or fee them executed. The two others will be on the left or right of the third rank of their company before their lieutenant, for the same reason as the two first; the sirst ferjeants of the two other companies will be on the right or left of the second rank of their companies behind their captain; which will make a file of officers and ferjeants between the first, third, second, and fourth companies, as may be feen by the plan hereunto annexed.

The last serjeant of the fourth company will be placed on the right of the third rank of his company, behind his lieutenant; the second serjeant of the third company behind him in the rear-rank, and the lieutenant behind him, out of the ranks. By this means, in case the battalion is obliged to march-by the rear, there will be an officer advanced before the centre, two others in the front-rank, and serjeants on the slanks, for conducting them.

For the particular disposition of the squads, the corporals will all be in the front-rank, and the lance-corporals in the rear-rank. The ten private soldiers will be thus divided; the two first in the second and third rank, the two following in the front-rank, the two next in the rear-rank, the two after them in the second, and the last two in the third rank.

This is a detail of the whole order in which a legion is to be drawn up. I take it to be founded on principles which ought to determine and fix it. There will always be a piquet ordered by each regiment, but the officers and private men will join their companies till they are called upon for that duty; for, in case there should be necessity for a body of fifty men to march without loss of time, it is to be supposed it would be for some expedition, on which the light-armed men or foot-grenadiers might be fent. There is always plenty of time, unless there be a very urgent necessity, to order the piquet from the ranks. As for the foot-grenadiers, they will be drawn up in the fame manner as the battalion-men are, and the horse-grenadiers will be in two ranks: for, as they will feldom have to withstand the cavalry, but are defigned to fall upon the infantry on its giving way, they will throw themselves more readily among them, and get fooner round them, by being in two ranks, than if they were in three or more. The captain and the quartermaster place themfelves

Part III. Of the appointment of the Legion. 329

themselves at the head of that half of the troop that is on the right, and the lieutenant at that of the other half on the left. The drums will be placed upon the slanks of the

battalions, two on each flank.

I shall not speak here of the marches, reviews, parades, nor evolutions. I will only mention, that it appears effential to me, in every particular, and at all times, to keep to the same order in which the troops are to fight; first, because the changing of it is of no manner of fervice; fecondly, it is much more easy, chiefly for young officers or new-raifed foldiers, to know again their places in case of disorder, or on rallying, if they are never used to any other but them. Besides, it is dangerous to shew them any thing that is useless in war, because after a long peace they know nothing but that, and will make a practice of it. Hence it is that we have fuch a great number of corps that are good for little else but reviews and parades; and which nevertheless are made use of in the day of action.

As for the front of the camp, its extent is fixed by the ground a legion, formed in order of battle, takes up. I believe this to be the only rule which ought to be followed, in marking out the particular camp of a body of men, because it is to be supposed that they may be attacked there, and have occasion to form and fight at the head of their camp, and therefore that it would be dangerous for them,

T t fhould

should they be either too much crouded, or too much extended on their ground. It is on this account very essential, to have regard to the decrease of the troops in a campaign, in order to contract their camp; which may be done by making the double streets narrower, when their depth is well proportioned to the extent of the front. In my opinion, there is not sufficient attention paid to this article; and I cannot well understand, for what reafon one hundred and ten paces are commonly allowed for the front of the camp of a battahon, including therein its interval. The ground a fingle man takes up in order of battle, is usually about two feet; and as our proposed battalions have fifty-three men in front, each ought to have an extent of one hundred and fix feet, every small interval twenty feet, as I have already observed, and every great one forty; which will make one thousand six hundred and ninety-six feet for the fixteen battalions, two hundred and forty for the twelve fmall intervals, one hundred and fixty for the four great ones, including that on the left of the legion; in all, two thousand and ninety-six feet for the whole space, computing from the right of the legion to the right of the next that joins it; which ought to be the extent of the front of its camp. As the regiments are entirely alike, it will be fufficient to point out the camp of a fingle one. The company of the grenadiers

will incamp alone on the right of the regiment, as is now practifed; the company of lightarmed men will incamp in the same manner on the left, the first battalion on the right, the fecond on the left; and the companies will all incamp, just as they are placed in the order of battle; observing likewise, that, in the regiments and battalions on the left, the left will always be the post of honour. companies of battalion-men will incamp two and two, with the rear of their tents towards each other; which, with the detached companies of grenadiers and light-armed men, will form nine double streets; each of which will be thirty-fix feet wide, and fix feet more to the street in the centre: seven feet will be allowed for the pitching of the tents of each detached company, and fixty feet for the great interval; which makes,

		Feet.	
F	or nine double streets,	330	
F	or eight spaces of ground for pitching		
	the tents of fixteen companies, in-		
	camping two and two, with their		
	rears or boots towards each other,	120	
For the two detached companies, in-			
	camping with the boots of their		
	tents facing each other,	14	
F	or the great interval,	- 60	
2 of the great interval,			
	Total of a regiment,	524	
		-	
	And of a legion, -	2096	
	And of a legion, T t 2	which	

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which is precisely the ground it takes up in order of battle.

The company of horse-grenadiers will incamp, and form one double street, ten paces behind the kitchens in the rear of the centre of the regiment: it will be forty-two feet wide, from one horse to the other, and twenty-sive paces deep; by means of which they will be able to form in the rear of the centre of the regiment, when they take their arms. The kitchens will be next to those of the soldiers; the officers tents in the rear and aside; the bells of arms and the colours will be placed in the ordinary manner.

By this disposition, a legion will take up, from the right to the left, two thousand and ninety-six feet; and six battalions, at the rate of two hundred and seventy feet each, and sixty for their interval, as is given them at present, will occupy but one thousand nine hundred and eighty feet, though they are more numerous in serjeants, grenadiers, soldiers, and drums, by two hundred and forty men.

If there is a necessity to outflank the enemy's battalions, the intervals are only to be enlarged *, which is a manuver great battalions cannot make in presence of the enemy: the troops of horse may also be detached to harafs the enemy on their flanks; which is impossible to be done with the infantry on the footing it is at present.

^{*} See plate 13. fig. 41.

Part IV. Of the formation of the Legions. 333

Lastly, great advantages may be drawn from these manauvres, and several others.

PART IV.

Of the formation and expence of the Legions.

I Said, in the beginning of the fecond part of this treatife, that it is necessary to look out for easy and ready methods, agreeable to the genius of the nation, and that will at the

fame time have the effect required.

I think I have proved, that the legion has these qualities. It remains for me, to shew the facility and quickness with which it may be formed, and that the changing our regiments into legions may be easily executed, during the short interval between the end of this campaign and the beginning of the next. What will be still more surprising, is, that the King will save considerably in the expence his French infantry cost him.

As it is to-be supposed, that the King, in the present circumstances, will increase his army rather than lessen it; I shall give a plan of the change that is to be made of our hundred and fixty-two battalions into thirty legions; which very nearly makes out the same

quantity

quantity of infantry, and an augmentation almost equivalent to the number of horse-grenadiers.

It feems to me, that the clearest way of representing to one's self the plan, will be, by drawing up a state of all the different commissions and ranks that will be in the legions, and of such as now subsist in our regiments. By this means, it will be seen at first fight, how great the number of savours is, which the King, by this new disposition, will have an opportunity to dispose of, and how many men, what kind and rank, the augmentation will consist of.

It will be feen, by the annexed plan, that our hundred and fixty-two battalions, making out in all but 110,970, and the thirty legions being 116,190 men strong, by augmenting our companies of battalion-men two men each, our regiments would have the number for forming our legions, wanting only thirty-fix men; which may be looked upon as sufficient and equivalent. As for the officers, though it seems that three hundred and sifty-five must be reduced, this reform ought to be regarded as none at all, because it will naturally take place, by not filling up the vacant commissions at the end of the campaign. Four hundred and twenty-four captains will be promoted to higher ranks, and one hundred and fixty-seven lieutenants appointed to vacant companies; by which means, about the tenth part of the

officers that are now in the King's fervice will

advance one step.

There are required, for making up each legion (supposing an augmentation was made of two men per company) five battalions and two fifths of another, which may be estimated at fix companies*, eighteen battalion-men, and eighteen grenadiers. The last legion will recruit thirty-fix men more than the other, to make up the complement. If, at the same time, the King should approve and order this project to be put in execution, it would be easy, and very necessary, to give in, before the month of December, a circumstantial plan of the measures that ought to be taken for this disposition, and which ought to be relative to the actual position of the troops on the frontiers; infomuch that every thing may be concerted and disposed for the filling up of all these commissions before the 1st of December. the ordinances be given out during the first fifteen days of that month, and the whole change be executed on the 1st of January 1745. If it should please the King to make a more confiderable augmentation in the troops, this would not be any more difficult to be brought about. They must begin, by causing the captains of the battalions recruit the number of men which should be necessary to augment the

infantry;

^{*} In 1744, the battalions confifted of 17 companies, viz. 16 companies of fusileers, at 40 men each, and one company of grenadiers at 45.

infantry; and, in consequence thereof, the legions could be formed in the manner as has been before mentioned.

Concerning the expence, as it is requisite to compare that which the legions will come to, with that which the regiments at present cost; I find the treating of this article much more difficult than any other; because there is nothing so obscure, nor so perplexing, the distribution of the military finances in France; insomuch that many regiments have been obliged to take skilful clerks out of offices, making them their adjutants, in order to disentangle their affairs and accounts: And as for the general administration, there is not one clerk in the war-office, that is charged with this branch, let him be ever fo understanding, experienced, and capable, who doth not himfelf acknowledge, that he is every moment put to a stand by new difficulties, and that it is almost impossible the present service can be without such perplexities. By this new regulation, matters will become infinitely more clear and better fettled, the administration and distribution of the finances be simple and easy, and remain such, equally in time of peace or war.

I have, in speaking of the officers, given those reasons that engaged me for allowing them a larger pay than they enjoy at present: it is from the same motive, that I propose to augment confiderably the pay of the furgeon,

who is to have a mate under him, and likewife that of the chaplain: it is also on that account, that I propose an allowance to be made to the drum-major, and another to the drum of every company, out of the King's pocket, to the end, that every captain being thus no more obliged to every *idle* expence, may enjoy his whole pay; which, as the case now stands, is considerably diminished in certain regiments.

It is likewise proposed to reduce the provosts and quartermasters; these employments being never filled up, and absolutely useless

to us.

I have joined a table of the pay of a legion in time of peace. I have mentioned nothing, in its detail, of the expence for horses for the horse-grenadiers; because the price varies extremely according to the time and places; and as I speak in this detail of the expence of a like body of dragoons, this article is not necessary to the calculation I am going to make.

The ninety-seven regiments, or 162 battalions, are paid as follows.

Seven regiments, of four battalions each, cost Ninety battalions, commanded by colonels, cost Forty-four battalions, that have no colonels, cost Thirty-three provosts places cost Eight regiments of dragoons cost	Livres. 3,510,010 11,448,720 5,437,784 46,728 1,392,680
Befides, there are a great many penfions affixed to foot-regiments, of which I could not learn the exact fum; also a great number of routes for the recruits of the dragoons, which, if this regulation	
takes place, will cease; I shall estimate these at	164,078
From which deduct the expence of a legion, accor-	22,000,000
ding to the former calculation,	19,346,040
Balance,	2,653,960

Thus, when we have compared the total expence of ninety-seven regiments of infantry, and eight regiments of dragoons for one year, and the charge of the legion for the same time, there is a balance or saving on the side

of the legion of 2,653,960 livres.

But as no pay will be allowed to officers, during the time of their absence, unless it be to captains and lieutenants that are a-recruiting, and others in extraordinary cases; supposing that all the colonels serve two months per annum, this will save 360,000 livres. And I believe I shall not carry my caculation too far in estimating this article at Liv. 746,040 Which joined to the above differ-

ence of - - - - 2,653,960

Will make a faving of - - 3,400,000

The

The ninety-feven regiments of infantry and eight of dragoons, make in all 116,970 men of infantry; and by this calculation the thirty legions, by retrenching from the above number, 120 quartermasters of horse-grenadiers, that are not reckoned in the regiments of dragoons, make in all 116,070 men. By this calculation the thirty legions will have nine hundred men less than the regiments whose expence I have been computing. Thus I shall estimate the expence for the nine hundred men on the legionary footing at Liv. 150,000 Remains for the whole difference 3,050,000

which faving makes out more than the feventh part of all the expence of the troops in question, notwithstanding that there are large appointments, and their pay in general confi-

derably augmented.

As for the pay in war, the calculating it for a legion will be very easy and plain. It is proposed to allow it the same pay in winter as in fummer, and that, in the month of January every year, all the legions that have made the preceding campaign, that is to fay, the staff, ensigns, surgeons, and chaplains, the lieutenants of the foot-grenadiers, battalionmen, and light-armed men, shall receive four months pay, to serve them instead of campequipage and utenfils.

	Livres.
The captains of horse-grenadiers will hav	e 4000
Their lieutenant	400
The quartermaster	200
The captain of foot-grenadiers	600
The captain of the light-armed men -	- 600
The captains of the battalion-men for re	
cruiting, camp-equipage, and utenfils	1000
The forage during the winter will	be fur-
nished on the following footing:	
	lations.
To a general	16
a major	- 10
an adjutant	- 5
a fubadjutant	3
a colonel	. 10
a lieutenant-colonel	- 8
the commandant of a battalion -	- 6
an ensign	- 2
a furgeon	2
a furgeon's mate	- I
a chaplain	- 2
To a captain of horse-grenadiers	- 6
a lieutenant	4
a quartermaster	- 2
a grenadier	- I
To a captain of foot-grenadiers, batta	
lion-men, or light-armed men	4
& Henteliant	- 2

During the course of a campaign, the grenadiers and soldiers will have bread and meat on the same footing they receive it now. It were to be wished, that the deductions for the meat were as little burdensome to the grenadiers as to the soldiers. As for the officers, they will have leave to take the same number of rations of bread as the King gives them now, in paying for them as the soldiers at the rate of two sols per ration, the deduction whereof will be made by the treasurer of the army from their

pay.

It is useless to make a general calculation of what this augmentation will amount to in time of war; because it depends on the number of legions employed in the field. It is on this account, and because I have not collected all the necessary materials, nor have I time now for fuch a task, that I shall not make a comparifon between the expence of the legions in time of war, and that of the regiments: but it is easy to be perceived, that the saving will be much more confiderable than in time of peace; because the number of officers is less, the brigades are stronger, there are no field or staff officers of dragoons, and there is not one double commission, as is common at present. Such are the majors of regiments, chiefs of brigades, and particular majors. Colonel-brigadiers receive also pay for both these capacities; in so much that a brigadier-colonel of infantry has

fix and twenty rations of forage a-day, whilst

a marechal de camp has but twenty.

Lastly, It is evident, that the expence of the legions will be much inferior, and much clearer than that of the regiments, and the general administration of the funds provided for

them, much more plain and eafy.

The legions will besides have many other advantages, which use will make appear, and which their very circumstances don't allow me at present sufficient time to particularize. It is certain, that such a revolution in the infantry, the very moment that it is carried into execution, will raise again a spirit among the officers, make them apply close to the service, revive their emulation and ambition; and I dare even affert, that the effects of it will be perceived from the very beginning of the next campaign.

LETTERS.

Marshal Saxe to the Chevalier Folard.

Camp under Courtray, August 11.1744. Received, my dear Chevalier, the letter with which you honoured me of the 2d of The marks of your rememthis month. brance flatter me infinitely, and I should think myself happy to have you with me; but you know, my dear Chevalier, these things do not depend on us. I could wish, if it were posfible,

fible, to have in my army many officers like him who defended the cassine of Moskolini, and affure you I should esteem them much.

The enemies intended to catch me here: but having learned that I had caused patch up the old fortifications, and added some palilades to the body of the place, and barriers to the gates, they changed their mind. They have cunningly enough taken a very imprudent step, marching by their left, between my flank and the river Scheld. I was informed at night, and marching by break of day to cut them in two, I got intelligence at the stonebridge, at feven o'clock in the morning, that they had all passed the rivulet by fix, having marched the whole night. They are gone to incamp on the plain of Cizoint. I have provided Lisle with every necessary for a good defence; and I have continued here, suspecting their design to be, to force me to return to our own territories, and not live upon the product of theirs. I have fent M. du Cheyla with twenty-three squadrons, to lie under Lisle, and caused the Count d'Estrées, who was at Maubeuge with eighteen squadrons, advance under Douay, to keep them in awe, and hinder their sending detachments over the Escarpe and the Deulle, to harass the country. This method has answered hitherto; none of their troops have passed these two rivers, through fear of being cut off by the two corps.

We

We have been eight days in these positions; how it will end, I know not. They dare not, by advancing farther, leave me between them and their ovens, which are at Tournay. Mean time I live upon their country; which I think is pretty well for one who is only on the desensive.

Adieu, my dear Chevalier; I embrace you with all my heart. Favour me fometimes with your letters.

LE COMTE DE SAXE.

Marshal Count Saxe to Count d'Argenson.

Paris, February 25. 1750.

A Greeable to his Majesty's intentions, which you acquainted me with, I repaired to the Invalids, and have seen there the different detachments assembled to perform their exercise. The detachment of guards, which M. de Bombelles has disciplined, marches the best, and goes through the exercise with the most grace. The exercise of Count Maillebois pleases me infinitely: he has a method of making his men prime their pieces, which, in my opinion, will soon be followed by many; because a most troublesome motion, when the bayonets are fixed, is thereby avoided; and of all the alterations that may be made in the exercise, none is more proper and better to retrench, than the ancient

cient method of priming, in order to substi-

tute this in its place.

The exercise which the Duke de Broglio has introduced in his detachment, is a copy of that of the Prussians. Cartridge-boxes and priming-horns should not be allowed to that detachment, if any alteration is to be made in this infantry. I am not for making the fwords be wore like hangers; the method introduced by M. de Bombelles, is the best and least troublesome in all our infantry.

Aisace has the true Prussian exercise. It is a mistake to believe, that short firelocks are requifite for executing it; ours are well made,

and serve the purpose.

The exercise of Beauvoisis is very fine, and extremely well executed. But to tell you that it is the best, would be taking upon me the decision of a very important question. That branch, which too indifferent an attention is given to in France, has for many years emploved the thoughts and application of the most able military men in Europe. It cannot be denied, that the King of Pruffia's fuccess against troops, which, for these fifty years, have always been at war, and have been looked upon as good troops, cannot be ascribed to any other thing, than that application, and the excellency of their discipline and exercise.

The choice of exercise, therefore, is not at all a matter of indifference. They have in Prussia made it their business those forty years,

with z X

with an uninterrupted application; and the reigns of two kings, who always bestowed their greatest attention on the military, have been entirely taken up about it, with the assistance of their generals, whom no object of interest or pleasure can divert from the duty and func-

tions they are charged with.

The different motions of exercise, which are to be performed in open ranks and files, are relative to the manner of making an attack or charge, when the battalions are in close ranks and files, which is the position they ought to be in when they are formed for engaging. At their exercises on reviews and parades, the officers must all be on the front of the battalion, and then the ranks and files are open; but when they are closed to close order, the officers must be in their ranks, and only one officer before the battalion.

The fecond part of the letter with which you have honoured me, regards the question, Whether the officers ought to be placed in the ranks, or on the front of the battalion? It is certain, that we always lofe, by the fire of our own foldiers, a great number of our officers, in case they are on the front of the battalion, especially in the first engagements after a long peace. In the fecond place, when the officers are not placed in the ranks, they do not concern themselves so much with their divisions: and the major, or those that command, cannot distinguish the divisions, on account of

their

their not being marked out by the spontoons; and when it happens, that, by their moving and unevenness of ground, they mix, those that command cannot readily perceive where the fault lies; the subaltern officers are likewife not masters of their men, and cannot prevent their firing; which is a point of the greatest consequence. For any body of men that fire in the presence of the enemy, is undone, in case that which is opposite to it preferves its fire; and this is the reason, why those that understand their business well, make the foldiers carry their firelocks shouldered; because it is more easy to prevent their firing, when they have their firelocks on their shoulders, than when they rest them on their lest arms, or march up to the enemy with their arms presented to the front, which is a more dangerous manner of advancing. This is likewife the reason, why the officers are obliged to have spontoons; for, as they cannot fire, they prevent the foldiers from doing it; whereas had they firelocks, they might be the first in firing, and the foldiers would imitate them; because there is but one single shot required, in the presence of the enemy, for making a battalion, a brigade, a line, nay a whole column, fire. There are but too many instances I could alledge, to prove this, and our military men cannot deny it. My duty will not allow me to flatter, in a matter of so great importance as this is. I am obliged to fay, that X x 2 our our

our infantry, though the most valiant in Europe, is not in a condition to sustain a charge in a field, where infantry of less valour, but better exercifed and disposed for a charge, can come up with it. The fuccess we have in battles cannot be ascribed but to mere hazard, or the ability of our generals, in reducing battles to certain points, or attacks of posts, where the fole valour of the troops, and their resolute firmness commonly carry it, if the general knows to make his dispositions accordingly, that is to fay, in a manner to be able to support the attacks. But this is a thing which cannot always be done, and which the general of the enemy can prevent you from doing, if he has capacity, and knows your faults and his advantages. What I advance here can be made good by proofs.

At the battle of Hockstet, twenty-two battalions that were in the centre threw away their fire, and were dispersed by three squadrons of the enemy that passed the morass in their front. On the other hand, the enemy were repulsed by the troops in the village of Blenheim, who did not surrender, till after their own armies had retired and abandoned them.

Luzara in Italy was an action where the ene-

my were retrenched.

Ramillies, a battle in open plain. Denain was an attack of a post.

At Malplaquet, those troops that were in open plain gave way; those that were strongly posted,

posted, maintained their ground for a long time, and made the allies horse suffer considerably.

Parma was an affair decided by the attack

of the enemy's posts.

Dettingen, a battle in open plain.

At Fontenoy, the troops that were in the plain gave way; those that were posted, main-

tained their ground.

Raucoux was an attack of posts only. Tho' there was a great plain, the posts alone were attacked.

Lawfeld was a battle in open plain, reduced

to the attack of posts.

It is therefore a great defect in any infantry. to be capable of acting only in certain dispofitions. This opinion-will certainly meet with opposition: but I doubt much, if we have many generals fo enterprifing as to undertake to march, in an open plain, a body of infantry in fight of a numerous cavalry, and to flatter themselves that they could be able to maintain their ground for feveral hours, with fifteen or twenty battalions, in the midst of an army, as the English did at Fontenoy, without either throwing away their fire, or even altering their countenance, notwithstanding all the attacks our cavalry could make upon them. These are things we have all seen; but self-love forbids the mention of it, because we well know our incapacity to imitate them.

The

The Romans, differing in this article from all the other nations on earth, made the profession of arms their constant study; and as soon as they perceived methods superior to their own, they renounced them, and adopted the others. Hannibal having found out the defects of his infantry, formed them into legions, arming them, and making them engage after the manner of the Romans; and victory, at Cannæ, was the reward of his prudence.

As to my choice of the different exercises of the several detachments, which the King has done me the honour to ask my opinion of, I must own I prefer that of Alsace. My reasons for this choice can hardly be contained in a letter, and a memorial on this subject would only pave the way to a kind of writing which must be tiresome to you, and which I should

chuse to be dispensed with.

SCHEME, shewing the pay of all the different ranks in a legion, with the total expence for one year.

Pay per annum of the staff-officers of a leg	ion.
,,,	Livres.
r general of the legion,	12,000
I major,	- 6,000
4 colonels,	14,400
4 lieutenant-colonels,	- 12,000
16 commandants of battalions,	- 38,400
4 adjutants	7,200
4 subadjutants,	2,880
16 ensigns,	- 5,760
I furgeon,	- 1,200
I furgeon's mate,	600
r chaplain,	- 900
r drum-major,	- 240
,	
Sum, -	- 101,580
Pay per annum of a troop of horse grenadic	ers.
1 - 8	Livres.
r captain,	- 1,620
I lieutenant,	- 720
1 quartermaster,	- 360
4 brigadiers,	- 540
44 private horse-grenadiers,	- 5,148
I drum,	- 126
Stock-purse for the troop,	- 735
Remounting fund,	- 1,100
• • • • • • • • • • • • • • • • • • • •	
Sum,	10,249
,	20,149
Total expence of one legion per annum.	
- 1 · · · · · · · · · · · · · · · · · ·	Livres.
Pay of the staff-officers,	101,580
of 4 troops of horse-grenadiers,	41,396
of 4 companies of foot-grenadiers,	39,792
— of 4 companies of light-armed men,	- 32,160
of 64 companies of battalion-men,	558,080
Expence of one legion,	77 3,008
	7737-3-
of 30 legions,	23,190,240
27.10	- 37-7-7-6-

Pay per annum of a company of foot-granadiers, a company of light-armed men, and a company of battalion-men.

	Foot-gre-	Light-arm-	Battalion-
	nadiers.	ed men.	men.
	Livres.	Livres.	Livres.
1 captain,	1440	720	1200
i licutenant,	720	540	540
2 ferjeants,	432	396	396
4 corporals,	612	540	540
4 lance-corporals,	540	468	468
40 private men,	4680	3960	3960
ı drum,	144	126	126
Stock-purse of the company,	795	795	795
5 mens pay for inlifting-money,	585	495	495
Fund for marching recruits,	00	00	200
Sum,	9948	8040	8720

A legion is composed of staff-officers, four troops of horse-grenadiers, four companies of foot-grenadiers, four companies of light-armed men, and sixty-four companies of battalion-men. The total expence of a legion as in the preceding page.

The money mentioned in the above estimates is French livres, about 10½ d. Sterling each, 23 of which, according to the nearest calculation, make a pound Sterling. When we, by this rule, reduce the pay of thirty legions, or 116,190 men, to British money, it gives L. 1,008,271: 6: 1 Sterling, being the total amount of their pay for one year, or rather 360 days, as they divide their year into twelve months, each month thirty days, which cuts off five days six hours; but this way of reckoning regards only military payments.

We must further remark, that the sum-total of our tables does not agree with that in the original tables. In summing up the whole, they have omitted several articles, such as, the remounting-sund for horse-grenadiers, and the fund for marching recruits; these two articles alone amount, in one year, for the thirty legions, to 516,000 livres, (above half a million of their money): we have therefore made out our tables according to the data given in the original, and corrected thereby the errors in the French

tables.





























































